

4449	12500	A	5355	2	5217	APLDGEVELLQQQKIREKLDEFNELAIQK ESADRQVLMQEEEIKRLEEMNNIRKKV AQIQQEEVEQKQNIKVKGLEQDKEVLKKQ QMSSLLLASTLQSTLDAGRCFEPFGSPP EGPEIQLVTRQALLRRESEVELDKQELE KMDGDLESKNEEILHLNLKLDMONSQT AVSLRELEEENTSLKVIYTRSSIEELKAT IENIQENQKRLOKEKAEBEIEQJLHEVIEK QHESL5MGPVHVSDSQAGLSQSELLC
4450	12501	B	5356	224	326	XSSSDGNLRPEAITAIIIVVFSLLAALLLAV GLALL*
4451	12502	A	5357	87	558	STFFPAIKHHWVDLTQAQRGHGICLSPRSHSN EGRQMGERGPWRAGSPAPSPWSPDEPGP PRIHGRTERKERGLWGLDTQRKVGSA SRGVGPEPQHT*AAGTAKQRQHAAQSPP HGCPQLPLTSPPEPSEAGSVAAAIVYKP ATRSPGQCWWLQQAPAFR
4452	12503	A	5358	3	713	TDRGCRGRDTFHEPELIG/PKTPGPAGPLQ VPLAGDAVGGASARSPFLGAGNPPIPW RTPVAGAASGAGPAAAPAGPLGPGLRGK RPLLMRRIALFCUJPAPAP/MATCVHKP SLLSSRSSTS/SAALLLAVGACTVGA/ERF GRSGRRRAPTGPVARSSFMOPRPGPLR TPRRRCRAACPSRSPILLHLSPPFIAV*FWG KAVPSSLGSQIHPVLNNSREEGTSKTLPLRS REDGAIHFYIF
4453	12504	A	5359	2	807	RPOGFFAWRLPLPSRRGATPGRLPRS*PRPH PRPEPGVR/GPWVIIESVR/HQDCSGRSP GQTPTCEDRAPSGGSALGRGSLGPWTL IGSGRGR/RSPGKLGPSPGPKAFA*RRRRA SKVAPGPDLGWPRIAQAWARKGKHLA WGTGGSWPPSHAPGHQLGFQLKQPLGN QREWQGNLGIQDL*GQVDPNRPPPLSGP GDRHLTGKPSGREGALSQGPQRHSPGR PQQQASSSCCERSHGPGLPVTTIHC PGVQ WASCPGWCLARCSPRPA
4454	12505	A	536	426	634	VFCYSRTNWNKTEIRKKPGKLPSIWKL SSTLLNNQ/LVSEENKREIKKYKP DINENE DTTYQNLWNELKQC
4455	12506	A	5360	1	412	FFFPLRWSL/N/SV/SQAGVQWWDLSSLQP LJPGFKQFSCSLSSLSSWDYGCPPR PANFL HE*#RQGETMLFRLV SNS*PHDSPIASQS AGWIGVSHRARPSCLLLAYLFSEFVSKWK QSSTKALPCGFRMLCPVLTVER
4456	12507	A	5361	3	884	YLSIHQVYGEACIPCGPGSKNNODHSV CYSDCFYHEKENQSLHYDFSNLSSVG LMNGPSFTSGTKYHFFNISLCHGEHK KMALCTMNITD#N/VKEIVAGSDDYTNL VGAFVCQSTHSES/TGVSEQYHINPJI ADTFIGVTETLKNINIKEDMPVPTSQI PDVIIFFYKSSTATTS CINGRSTA VKMRC NPKTSGAGVIVSPVPKCPCAGTCDCFTYFL WESAEACPLCTEHIDFHEIEGACKRGFQE TLYVWNEPKWCIKGISPEKKLATCETV DFWLKVAGV

4457	12508	A	5362	3	2697	CSVKECLOASA KLPASAVSLLCLVA KVWRRLRWQEA FSCASGEYLEMKNQ VCSKCGEGTYLSGSQIKFDEWDELPAQF SNIATFMDT VVPGPSDRPDGCNNSSVIP RGNYIIESNRDDCTVSLIYAVHILKSGGV FFEQYVVDNNIFFFFFI ONDQCQEMDITI DIKWKLTDNGEWGSHSVMLKSGTNILY WRTTGILMGSKAVKPVLVKNITIEGVAY TSECFCPCKPGTFSNPKPGSPNQCSKIIIDPF LKRFRYYVAEEGSSECTRPPCCTKDYFOI HTPCDEEOKTQIMKYWIEPKICREDLTID AIRLPPSGEKKKDCPPCNPGFYNNNGSSCH PCPPGTFSDTKECRCPAGTEPALGFEXY KWWNVLPGNMKTSCFNVGN SKCDGMN GWEVAGDHQSAGGSDNDYLILNLHIP GPKPPTSM TGTAGSSELGRITVFETLCSA DCVLYFMV DINKRSTNVVESWGGTKEK QAYTHIIFKNATTFITWA FAPEN*FRVQD NRRFINDMV KIYISITATNA VADGVASSCR ACALGSEOSGSCVPCPGH YIEKETNQC KECPDTYLSIHQVYKG EACIPCGPGSKN NOGKKMALCTNNIDFTVKEIVAGSIDDY TNLVGAFVCQSTIIPISESKGFR AALSQS I LA DTFIGVTVE TLKNU NIKEDMFPVPTS QIDPVHFYKTIYR QUDIKCPAGTC DGCT FYFLWESAEACPLCTHEDFHIEGACKR GFOETLYVWNNEPKWCIGISLPEKKLAT CETVDFWLKV GAGVG AFTAVLLVALTC YFWKKNQKLEYK YSKLVMTTNSKECEL PAADSCAI MEGEDNEEEVVYSNQCSLLG KLKSLATKTAIGVFGGPWSLG YVISCVQ SETRSSCIISVHAKNEILIAEEE
4458	12509	A	5363	1	1146	NFD SKRRITV RNL RIREDIAKYL RNL DPN SAHYDPKTRAMRENPYANAGKNPDEVS YAGDNFVR YTGD TISMA QTQL SVSSMS SHFISAHKTGIV "SLSFRSRIQ*CSQCLTK MFRITLVFAWEAYDKGSEWHLQADPPT KLELLYKSFVKV KNEFDKFEQKESILEK YGGQEHL DAPP AELLLA QOTEDVYEYSR HGTVIKGQ ERAVACSKYEE DV KIH NHITH IWGSYWK EGRRRNKCCCHSFFKSYCTG EAGKEIVNSECIN EITGEESVKKPQTLNM ELHOEKLKEEKKKKKKKKKKKHRKSSSD SDDEKGHVKSNKALNA*EARLLHVKE TMODIDERKRPYNSMY*TSRPVIEEEMA YRMK RQRPDPMASFLQ
4459	12510	A	5364	3	1589	AP ALK VIL RYT *TDA PAI W WLDP ELTYG CAKPFVFTQGHISVCNRSFFC DFTPAAK CTYSAVVKAPS VQJELMSA TRSAY MEE EGVFIIFHM EH PVPAYL VAL VAGD LKPG DIGPTSRV WAEP CLPLTATSKLS GAVEQ WLSAERLYGPYMWGRYD I VFLPPSFI VAMENPLCTH ISSLESDEFLV IDV IH EVA HSWF GNAV TNA WT EEMW LSEG LATYA QRITIT EYGAFT CLETA FR LDA L H RQ MKLLGEDSPVSKLQV KLEPGVNPSH LRN LFTYEGGYC FVY YLSQLC GDP QR FDDFL RAYVGEYK PITS VVA O DILL DSFL SFF PEL KEQSVDCRAGLEFERWL NAT GPFL AEPD LSQGSSLTRPV EGLFQLWT AEPLDQAAA SASADISK WRT PQT ALFL DR LLG SP LP QE VVMSLSK CYSSLLDSMNA EIR IR WLQ IVVRNDY YSLT / FHRV RFP GR AR CHAC YTIPL YEDL CTGALKSFA LEVY QTQ GRL HPNLRRA IQQILS OG LGFQ H RARP

4460	12511 A	5365	1	418	FMGGVNRA.DENIDKYLASIRGKWWYSS PLLFCPELVQONAWLHKTYDEKPVDLF EFRRRVVCHYLETHGHPPPEPGQKGRPK RNIDSRYEGR*QVDSLNOGKVTRCAE HKNTTFRCEKCDVJHVVKCSVEYHTE
4461	12512 A	5366	1	205	KKFCSCGLKKIIFHEKNCOST*QISLSVF KLQQOPOLSTTL/SQPSTLRQNPPAK RL*LIEGSADG
4462	12513 A	5367	1	389	CRFNAISSKITADFTVFGGLLEHVHKVIL KCKWKVYYKSRRIVKIGFKKTQLS/GLILH NNKT*YTSMKTELTKYRHMRMENPEID HRFDQMIFDEGIKVIO*GKERLFNQWCW CSRRLRGDFSPETTEARKE**WDDIFKVLLKE QVSTKNLIFSKIVL
4463	12514 A	5368	2	300	TFPNLMTNMLNQIQEAQ*IPSWSKNSERS QSRILIIKLLKIKGERILKVEQKLITYKG CSIRLRGDFSPETTEARKE**WDDIFKVLLKE QVSTKNLIFSKIVL
4464	12515 A	5369	199	494	
4465	12516 A	537	1190	2097	SCLKLNLJITLAKSILL/CLDISVCYYLLD TGICYCLLISVCYCCLLDISICYCLLDTSV CYCLLDISVCYCLLNLISICYCYLLDTGICYC LLDISVCYCCLLISVCYCLLNLISICYCYCL DISVCYCLLNLISICYCYLLDISVCYCCLLNL VCYCCLLNLISICYCYLLDISVCYCCLLNLIS CCLLNLISVCYCCLLNLISICYCYCLLNLIS DISVCNCCLLDISPCYYLLDISVCYCCLLNLIS VCYCCLLNLISVCYCCLLNLISVCYCCLLNLIS YCCLLNLISVCYCCLLNLISVCYCCLLNLIS LLDISH
4466	12517 A	5370	256	514	
4467	12518 A	5371	2	1340	SLDLGGISTVVVNGYDVVKECVLHVQESEI FADRPCPLPLFMKMTKMGGLLKSYRYGR GWVDRRLAUVNSFRYGVGQKSFESKL /EKETKFFNGCYWKHTKVGPFD*TV**R MLFSNITNLNLIWEERFHFMQGHRFRFH MDWYSFRWKMWN*AAASAVFLYNAFP W/A/W/LFPFGKHQQLFRK/WTAVVYDFL SRLIEKASVNRKPOLPOH/PVDAYLDEMD QGNKNDPSSTFSENLLIFS/VGELIAJETT TNVLRWAILFMAIYPNIQQQVQKEDIJ MGPNGKPSLGR/RNAKCPYTEAVLHEVL RF/GNIVPLQIFHATSEDAS/LRGYSIPKGT TMITKP*FLYHLGWKKVPGEDPQKVFPPIP ERFPGTSSGIFWPQEQKLWVPPFFPLGRHH CPWENTLARMEMVLFSSIASEVFAS HMN*FQI*SPRLGMTLQPOPYLICAERR
4468	12519 A	5372	135	273	
4469	12520 A	5373	1	344	LNTLPPEVPFTPLSCLPLSLSLSS*LAPEP ICI CYATVP//PPFLLLPSTDADPSHGPGLPFLFP PHSPRHAAPSAPPSKKKKKKKKKKKTTA PVQASLGTSSLYPLOGSETGPTWS
4470	12521 A	5374	1	724	GRRGRGRAGRSRAGRRGGAAALVNR GGGPINRYNSDVAGGAAGGGGGRNRPAP YSRKOLPDW/WQFDLFDSGFGGG/AAG VETGGKLL/VSNLDPGWSIDAOEQLEFAE FGER*RAAAVHYDERSGRSLGTADVHEER KADALKAMIKQYNGVPLDGIRPMNQIQL VTSQIDAQRPAQSVSNRGGMTNRRGA GGFGWWVGDTTRKGTVRGGAIRGRGRGA GRNSKQQLSAEELDAQLDYNARMDTDS
4471	12522 A	5375	37	331	GLLCQASGPQAPGWPAIGLGRGQGSPN LPVPPRVPVA*/APGHTHAL/GKIPF*VPL PLO*GPPETHELEPPPPGCPCCPS/PVPSYQ GFLQPGGRAGGDRD

4472	12523	A	5376	1	385	FFFFFFFE1RTCSV A*AGVQWRDLD*LQ PPPPFKRFCLCLSRSPPSWDYZRCTSPYLAH F*FLVETGFHHVVGQAGLELLTSSDPPISA SQSAGITGVSHCTWPKLTTSTLMNVFPL NILLYLVILAK
4473	12524	A	5377	21	352	PTHPWPPTVLEATAPGSEYFFF*DAVILS SRRLECSG/SISAHCDLHLPSSESPPSVP QVAWIGVRHHVQLJFVFLVEMGFRHVQD QAGLK/JA*POVIIHPPRPHKVGLQV
4474	12525	A	5378	2	545	TCLGFFQMFFLGSILFVCYILLKFDFCVIF FSSNLGSILFVCYILLKFDFCVIFFSQLPFFT FYMDYSNPLGLSMSLRIS*KTF*MYG*V LYFVFF*KRNSQCPFPFNRDYFWIVCSSV DLFCTLFFTSCPHQOPCSIPPNGNKGPA PLPTVILEALKMMMFFIGLSSRIRGRS WKS P
4475	12526	A	5379	545	1462	GYPPCFIFPVATS*QSIGVVNF*LFEYFVY IYIEGFWGGLICLKVSVCILQVYPSFA KIIEPGFKTTLPTSLVNWNWELTSLHOP K/RPANFVIFGKRGQFSGHVGPGGLNSGPHA IRPASASOSTGITGVSHCACALNEITEP
4476	12527	A	538	163	372	IRQRKAKLVLAFNRRGLRKPD/IFYYAG VKGIVKKKYSGFFIELVTTCGKNYLMCA LAVIDPRDSNIIRS
4477	12528	A	5380	2	243	GFKQFCLSHPPSSWDYRCAPPHTNF*P LVEPGFHVHQAGLELPTSGDLPALASQ SAGITGVSHHPWPMSALNSKNVR
4478	12529	A	5381	1	328	SPETGCSGAGAQGVQWHDLGSLQP*GGL K*SYSSLSSLSNWDYRCA/PRLANLFFV QAGSCHLAQAGLELLSSCHLPALVSQNA GITGVSHHARAGSCMEENTSLWLT
4479	12530	A	5382	2568	3052	RTEGRRVKSSKAGFFCFLFCVFLRW SLLLAQAGVORHDLSSLQPPPFTK*FSC LSLPSSWDYRRPPRPSG*FESFVETGF HVGQAGLELLTSGDIPASASQAGITG VSHHAQFQLDLEPPVCQGRDMALLLE RLPEVTICFLFSELCCRAR
4480	12531	A	5383	2	306	FFEMESSAAQAGVQWHNPSSLOPLPG FKOFSCSLSPSSWDYRRAPPHFANFEEL VDARFYHVHGQAGLELLTSSDILLASAS*S AGITGMSHIGWP*ATE
4481	12532	A	5384	141	414	IRTEGGQAQSVVFKTPOV/WLGTVAHTC SPSTLRSRGGWIT*VQEFTQSQNRRNQRG CNLVWSLKLTSILLTFELDSIRQEEGKLV RRWR
4482	12533	A	5385	2	287	GRVGNNNKKFGGRISLC/QPGWSAVTQLQ LIVTLNSWAERFSQDLPLSS*DYRCICLA NFLTFCKDDECLAMLRLVVLNSWPQGIL PQLLKVLELQV
4483	12534	A	5386	663	1014	ILKHYPQISSILQRKHTRQLSASLITNAK VFQASRFNVSISHALLQENIFYNTKPK VICKPG/CVIRITF*KL*IAQSVRWLTPVIP ALWEAEAGRSGRGQGKTIILANTVKPRLY
4484	12535	A	5387	3	208	EDVNRWRDJPSPWIGVRVRMVSVPNP INNTYINTEFLILI*Y*YRNNTSIPIKISGRFF VLREHEN
4485	12536	A	5388	190	261	ISIF/CFKTDSSCVAQAGVQ**NLGSLO/P CNLQPLPPGFK*FSCISLLSNWWDYRCAPP /HPNFCIFS RDGISP*LSILPTTFIKVARKI LI

4486	12537 A	5389	31	1431	RETRSCWAHYHAESSKHQKAKLKDSSRK ARRSIELIGPGSSQKGDDICSLIHLSSLKGLI LCYSKTCGNMGGWEGGMQLRVSSENSM GKSSRERAADLPQGSCWHELPGRLINT RISLKPRHIVWNLSVLCOVVKKKVKSIMQ MFHMPTSAMQGDRLGICVTQFDPKLLE RGLVCAPESLHTVHALISVEKIPYFRGP LQTAKPHITVGHETVMGRLLMFFSPAPD NFDQEPFLDSNFNSQEYLFQEYQLSKDLT PAVTNDNEADDKAQAOTEGHCPRQOW ALVEFEKPW/YLPSAVPGDWLQARCGHS PNTCLRAFHQCSCSTG*RTG7/NADSFLP RLKVYKLKHKEHGLVERAMDDYSVIGRS LFKKEETNIQFLFVGLKVLHSTGEGLCHDSAF GQSGKFKIHIPGGLSPESKKDPDTPPSK1 GPWPVPGQPGRRSRSPGANPHRMGW LTRPFKRYVFDTIKRMVQSP
4487	12538 A	539	995	1192	IILGNLTACSFYTSSLNAVWLKSAMLQL YFIF/FFGDRPSLCHPGWSAVVQSLTTAT STS/WAQAE
4488	12539 A	5390	1	421	FFF*GTESQLLPQCSGAITAHCSEL*LPG SSEPPTSAS*V*PETIGTY/RHAWLFFFFNL FPVETGSHYVAQAGFEPGLSNNDPPPQPP KLLGITGMRHHSRPELLPLTVPMWSSEQ DGETEDPCAMETWKVNITCLAQTPLR
4489	12540 A	5391	1105	1497	LFRTLSLVIAFLPKKNFPP*HYA*SYNVH PNTARKIKKPEFRAVFSFLLSERMSNIPPF FFDTEFHWSVTRLECTG/T*SSTHCDCPRLP GFEQILPASASQSSWDSPACATHARLI/FV FLVETGFHLHGQAG
4490	12541 A	5392	109	695	LLIPSATVSYPPKDLPWGGMILSKPPILL GSMILANNNCIVAGGCS*SSTLPS*LSSWRV GPOHPLRHRAPRPHQQVQYIISQDGVQHIL LPOEYVVVVPREGHIIQOKGRITHIQYEQ GAPFLQESQIOYVVPSPGQQLVTQAOLE AAAHSAVTAVADAAMAQAPGPVWLQD EDKCPKHNNSNKLQHPRASKYDVITPGR
4491	12542 A	5393	1	405	
4492	12543 A	5394	203	458	
4493	12544 A	5395	2	1185	LILNKKSRTRRSFRRHGPSPHGPFAFWRP SRLAEPGELG*REREQYNNPPISGENLIG LSRARPHNAJFVNFEDEEV/PKQPLEAA AQWTWRRVCTNPVDRVKVEELLRKASPA LRLAPLFDIRPITSRNAAVKVANITVHPNRF KAWLPLFIAYYMINTGPWRSLSWIRFGYDPA RKNPDAKDL/YQVLDFRIRCGMMQGYA PSDLPVKAKRSTYNVSLPTIVKKTSSOL VTMHDLLEWPWPRGRGSGARKPASSKY KLKVSLQTLRDSVYI/FREGALPPYRQM FYQLCDLNVEELQKIHVRNDGAEDFLA QERGWGGCCLPQGPQDEF/RGDITMSPMIR ETIGSKRPALFSSSAKADGGKEQLYTES GEDEEDEVEEEEEEDFPKPSDGSENEMG NONF
4494	12545 C	5396	95	295	MSTIKAPXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXLSSLRILFQNIYLYWDKIT FLYCEHTVGAQ*
4495	12546 C	5397	262	390	
4496	12547 C	5398	118	132	
4497	12548 A	5399	109	559	QFLHLRLVHDSGEVWMKLVE**NTLLAK MVISLWPRDLFASASQSGAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHP PGRRHVHGLLHWCAVGVP*QPGKH
4498	12549 A	540	77	199	SKSRPIASNKIEAIKSLPAKKP/GPDGFAT EFYQTFKEEL

4499	12550	A	5400	1	362 FFFFFLRRSL/SSVPOAGVQ*HDLSLLOPP/PPGFTFSCLSLPSSWDYRCPPPRPAKFFLY**RRGFTMLARMVIS*PRDPPASASQAGITGVSHRARPQFQLPLYNIHTLEGR
4500	12551	A	5401	2	462 NPPTSA*VAGITGACYHTRLILVCRDRVSPCCP/LVFFFFFF*DRVAQAGVQWHGLGSTCQSCP/CPGFKRFLPSDSPA/SPPSSWEYRHPPRP/ANFCIFIVEGT/TVLARMVIS*PRHLPALASQSAGITGLSHCARPVDFSLATSIY
4501	12552	A	5402	3	352 SSRPGSCRRGA/RAIRYVVR/RAVPSGGGEPPSGAPLQPSWK*AFARPGMLRCSPMSQAPSRAA/VLFEPLAEWMLHCA*QDEVRLGGH*GRRGP/LLDRSRA*RESPAEVRPARE
4502	12553	A	5403	3	286 SVAOVGMIGHLSLGSQPLPGLGK**SSHNLNPSSWDYRHAPP/HLANFCIFIVEGT/FRHASQAGLKSLSSSNWPILASQS/VS/ITGVSHRAQP*C*TF
4503	12554	A	5404	73	542 VLIFFFFLLKSL/DSVA*AGVQWCNSSLQPPSPGK**FSCLSLSSWDYRCPPLS/ANFCISRD/MGFIVLARLVLNS*PNNDL/PASAQSACITSVTHRWSKU/FRVDNDHY/ILFSSMELNVTP/ILCYHPQSSNNMYS
4504	12555	A	5405	1	397 EMESSVTQA*VQWHDLLAQN/PPPFRNFSCLSLSSWDYRCPPLS/ANFCISRD/MGFIVLARLVLNS*PNNDL/PASAQSACITSVTHRWSKU/FRVDNDHY/ILFSSMELNVTP/ILCYHPQSSNNMYS
4505	12556	A	5406	72	243 EPMTPQVSMPSILRQPMKTGMRIAMQEKVTONTPSS*KIFRFPSY/LIGVLSVISI
4506	12557	A	5407	34	420 MLYSHDPELS*QRVITALYAVFPPFPV/DFL*#EPSALVSI/GSP/LL/PVLSHWFLDLRVFH*FEKAHL*KLCGNP/WLSALLSTF/KVM*ERLV/VDQ*LSMAKTT*EPMTP/QVS/MFSCGRVEE/FRH/IPC
4507	12558	A	5408	3	316 FFFNFSRQGLCHPSWSA/VTQSRLLTVA/SIFRVQGS/SHL/SLLG/SW/DARHVPPCLANF*FFCRD/RGLVMLPM/VS/NSWAQ/ILPPWLPSIGITGVSHV/WLASLFV/
4508	12559	A	5409	905	1291 RGADTCGLFOVSA/DLHH/FLCSVAQAGVQWRNLGSQ/PPPPGFKLFSCLSLSSWDYRHAPP/RPG*FVVFLVET/GTRVQQAGL*LLTSGDPPA/SASQTA/RGL*GMSSHLASIYLDYFK*NFNKP
4509	12560	A	541	212	322 FLRHNLAVTOPGAQW/RLSSLOPL/PELKPSHSFLPSSWEYRCPPPHANF*FLVE/TGF/HVAQAGLEFLASSD/PTSA/FLNAGVTGVNHSAW/LCFSYLL
4510	12561	A	5410	2	308
4511	12562	A	5411	3	368 HRGESVWNICRW/GT/RL*GKIGKMTRAICL/FIGALIVFSITS/PAFFEAEP/WKN/DLD*TLT/GRPVSVVLLAKCDH/G/KDEC/NRSSL/CMGOIYMEHSFVG*IETS/AKENVN/DEASRCLDAK
4512	12563	A	5412	73	380 GOALQWCVS/VS/MCSCI/HSPCV*/VLWV/CVCLCISM/C/MYSA/CLGYTKFGVCTEKNKONCTGNRSTQGLPLRN/RHTGS/RFWLDFHPLASP/KT/RLS/LLS
4513	12564	A	5413	1	400 NSEGA/AWIOPPAGEPTW/GSGGT/QRAGAMPPGDY/SQGHPI/LH/RAPP/PLTRNRRIFLRRA/PSPVLED/PRKPPS/RQQR/DA/LHHV/LV/AQLREGML/GQPRPH/PPP/KPK*SQHA*QLPAGEPEV/GPGAGDR

4514	12565	A	5414	1	895	LRRARPRGWAGREAGPHPH*LRCRSSSA ALRPAFFTRPGTGETGLDRTGDRDQTSV NSAT(RLNPNTPSRSUAGGSSLQTQRGLPGS SPQENERPDKAEAPKQERMPGDYF VIPRTPLSPAPPLTRNRRFLRRAAPS LERPPEASKORTATPLRRTAPCSAGAAQ RGDVSGRKGVCKAGEQQ*PPNNNPRLLR SQAHARKRRRGDKFGVRPLQYCAF*DF WRLLSWQNPFPKATPLLR*PLPPPLQA GTAPSPSSSSQAN*MITARVTVTGWRAG SGTGSKGP*EPGRASFPS
4515	12566	A	5415	20	481	PTDPRGEHSKTPSLQKCKK*KLACGSST CL*S*ILGRRLRQKDHLSPGVRGYNEL*SC HCITSWVAE*PVSK*IIQSPPRKE*S/LY NEKNPSN*HIVDSEGWFSFVFLGADRwg AGVLVQRVRALSQMNCNERGHKHICPITI YLPYKPLCLPAL
4516	12567	A	5416	236	820	RRPQQAGKMKGSRIELGDVTPHNLFNCL ILCGVTSPNIQLKRLRNQVIFPVSYNDKF YKDVEVLEVGELTKULAYFNDAVGAVCCR VDHSQNQKRIMDMDRVWAPYRSLGI RELK*CIMCLKHULLKKMVLFDNIFLHWQI SNESAIIDFYRKPGFEIJAPKKNYYKRIEPA DAHVLOQKNLKVPSGQNADVQKTDN
4517	12568	A	5417	15	209	KASRKMQIETITRYYLSPMRLAKMQLM INTSCW/RKSQETRTLIC*W*EGKMVQPL SKGIWPYLIQ
4518	12569	A	5418	1	498	VORTROLVTSPSPMSSD/EQSSSPCCTV PSKLVLVDPLQHEPSKCGENDNNIPTPSNS NTPLKHASFISATGTEESRSVPQIKNGS VVSLSQSPGSRSSSAGGTSAVEVKVEPETS SDEHPVOCQENSIDEAKAPQTPSALLGQK SNTDGAHQKPSNEGVIEKATK
4519	12570	A	5419	8	299	
4520	12571	A	542	1	518	MAVARLAAVAAWVPCRSWGWAAPP GPHRGLSVLLARIPORAPRWLDPNLIA YKKLKGKSPGIIIFPGYLYSYMNMGTKALAJ EEFCKSLGHACIRFDYSGVGSSDGNSSEES TLKGWRKVNVLSSIDLVDGQQLVGSGL GGWMLMLHAAIARPEKVVALIGVATRCR YLSDKV
4521	12572	A	5420	1	3788	MNRLEGAEPSQQLQNIIDEEVISSACRLV CEWAQKVLVLSQFPDTVLELARFLVKSHYI GTKMSAALTVMAAAAPAGMRKGITQPSAF IPTAESNSFQPQVKTLPLSPIDAKOQLQRKR OKKQEQEQLQSLPGLPGEASAACKSESATSN GVTLPNGNPNSPQPIGIVVVAAPSPIP VORTROLVTSPSPMS/CF*EQSSSPCCTG GHSAAHAVCETGTKDSPERSSQSWWGSF CPAQLPSDLTQTEHQCCTPIRSITVL
4522	12573	A	5421	288	668	KEFQFLNSTDADPECIRYPLTYFVLGQSL ALVTKAQVQWRNLSSLQPPPPEFKRFSC LSSLSSWDERHAPPCCPS*FCVFLVKTG FHRVSSQDGLDLTSNDPPTSASQSAGITG VTLAPSFLVLIH
4523	12574	A	5422	3	288	STFFFFFK*NLARLSRLECHGTISAHCNFR LLGSSSDPALASQVA/GLRGTCIHIT*IF VPTVETGFRHVGGQAGLELLA/WVICPP*P PKVLRLOA
4524	12575	A	5423	1	781	MVHITGLCADNLQYQAGARIISVPEEDN SKSLENIFGGHIEENFPSLARDLDOIQEAQ GTPGKCCITKRSSPRHIVIRLFVKTERIL RAVRDWHGFISFLKQNDYQPRILYAAKLS IIYEKGIIQSYSDKVQMLREFITINGKLLKG AVSLVVALNR*NKSWKHITHQNRTSLK HKSHRTYKTKPLHDEYNDLRSALRPAS HTAYGSMLMILKSSLTFKHGDEVVGRRAK

4525	12576	A	5424	2	392	KTKIIQMANKHRKRH/QSO**VRLMOKKI IMHHYYIPQWLKTSKSDMIKCCSGYGTTE IFTHYLWECKLHELLWRM/WVLILLFKF TDPHDPAIPLL/GTYPAEC/CCTCTPKAHT ALSIIIVPSWEQPKYPO
4526	12577	A	5425	1	181	
4527	12578	A	5426	1	2162	MALFVRLALALALALGPAATLAGPAKS PYQLVLOHQSRLLGRQHGPNVCAVQKV GTRKYFTNCQKQWYQRKICGKSTALGT ADVKGVSSLAWSVSDLGGEQMRKLRRP EMMKLAEDGPAALPLSNLYETLGVVGS TTSQLYTDRTEKILRPEME/GGPGSFTIFA PSNEA/WAPLPAAEVAGTPLVSNVNIEL NALRYHWMGRRVLTDELKHGMTLTSM YQNSNIQHHPYPNQGTVNCARLLKAHDH HATNGVVHLLDKVISTITNNIQIEIEDITF ETLRLAV/AASGLNTMLLEGNGQYTLAP TNEAFEKIPSETLNRLQDPEALRDLNN HILRSQAMCAESIVAGLSVEILEGTTLE VGCGSDMLTINGKAIKISNKDILATNGVUH YIDELLIPDISAKTLFELAAESDVSTAIDL FRQAGLGNHLSGSEARLTLIGPLNSVF KDGNPVIDALTRDLLWNHINKDQLASK YLGNGOTLETLGKKKLRVFWYRNLSCLIE NSCIAAHDKRGRYGTFLMDRVLUTTP MGTVMDDVLKGDNRFMSMLVAJJQSAGLT ETLNREGVYTFAPTNEAFRALPPRERS RLLGDAKELANILKHYHGDUELVSGGIGA LVRLLKSLQGDKLVSSA*KTNVSVVNE PVAEPDIMATNGVWVHVNITNLQPAN RPQEVRGIDLADFAVVEIFKQAFSVFPAGS QRSVRAPVYYQKYLERMKH
4528	12579	A	5427	1	410	FFFLKRRDLAVAQTGVQWGDHGSLSLQPQ IPGRRQSSDLSFLNS*DHRHILCSATTS F*RSHSAAQAGLELATSNPPA*ASQPGI *GVSHTTWQKATFCICLPCANNILSCLNY SFYIHETNHNFMKTNHKQI
4529	12580	A	5428	3	404	RLFYNTIEMRFSLEVQGGCL/INSLG*SDL LVFASASAIGITGVSYPHALASIVFVCVC V*WGSALVAQAGVQ*RNLISSLQPLPEF KQFSLSLPSSWYRHPPPPLSFYLPKLKS CGLCTGJWAWRLFIFIGS
4530	12581	A	5429	2	240	TRSAVV*SQLTAALTSLVKQLSQLSLPR SWDYTHVPPCLSIFYFLP*GLPMLPLGLV SNSWTQAIFLPQPPKFYLGVLQ
4531	12582	A	543	3	604	MWSWAFTFIHHSILTDSPRATSSPPSPHI GDDQDIIVLKFLKVLGKNGSAWGRNGR PQGRRRGARFLRINVGCIYSTARRESLC RFKDSMLASMFSGRFLPLKTDESGACVID RDGRFLFKYLLDYLHGEVQIPIDEQTRIAL QEADYFGIPYPPYSLSDHLANEMETYCF KALTDPCDSYGLVCNKPVTWVLHYLNT SGAS
4532	12583	A	5430	3	468	RWSFLTVQAQGVQRVILAHAQPPPGFK RFSCLSLPSS/WDYRLAPPRLANP*FLVE TGFLHVQGAGLELPTSGDP/ASASQSAKI IGVPLCPGISRIFVQQMAEDRDSISLRL WFLSRHANLQCVTLSWACQLLPCGTW ARETAKANTLPAPV
4533	12584	B	5431	151	344	NEYESALNLVETCKVRTVKAGTLEKLV HLVPAFOGSDLSYVTFLCTYRAFTTITQQ VL DLLFKS*
4534	12585	A	5432	1	439	PSASSQAGGFWSQSLFKQESSGFVFRTS AESVLRQESLRLGVGLELYWRGESEVC GSROSLYGLSSGRGILQGPQEH*SPLC SPELKIPEANVFYAMNSTANYDFVLIK KRIFTKGVVKHG/ASFLP/RMKQKGLK IAKGIF

4535	12586	A	5433	77	444	GLGVPSLQEIRVPLTVCPSSVPPQYEN ESALNLYETCKVRTVKAGTLEKLVEHLV PAFQGSDLSYTIFLCTYRAFSASQQVLD LLFKR**ALHCTGCTRGRPRPHLAAG LGNAESPL
4536	12587	A	5434	1	3190	MVORMWAEAAAGPAGGAEPFLFGSRSSR SWDVAIRLEVGVPDSCPVLHSFTQLDP DLPRPEVGGRGLLOKSASRVGSGGCR APSNSRDHGWGWFAPLNTVPGPAVTKAA AAQVQLFLRHCPCLHWPWPVPTQFPFR ARSASLAFTMQAQVGLCSRQSVPVLYGNRL HRCIPCTVARQALDVAPGCRALSSQST QEIGEELINGVIYISLRLKVLHPAGNKKG QRWLGYENESALNLYETCKVRTVKAGT LEK
4537	12588	A	5435	1	435	EKINKIRWLPQQNAAHPLLGNNDKAIKL WKISERDKKAEGYNLKDEDGRPLPFRI TALRVPILPKMDLMVEASPRIFNAHTI YHINISIVNSDHETPNIVDIKPNANMEELT EVITAEEFHPHQCNVVFYSSSKGTIRLCD MR
4538	12589	A	5436	204	397	VPLKPMGSY*EASP'R'RIFANAHTYHI NSIVNSDHETYLSADDRLNLWHELT DRSNIV
4539	12590	A	5437	1	1463	PLRSWLFLRPLDSQADIISTVEFNYSGDLL AT/GDKGGRVVIFQREQEVLAQPRRPAL P*SVSSFLSTSCREVWQGCESPLFRERIK /GRPHSRGEYNVYSTAFQSHGTGFDYLS KSLEIEEKINKIRWLPQONAAHFLSTND KTIKLWKISERDKRAEGYNLKDEDGRRLR DFFRITALRVPILPKMDLMVEASPRIFA NAHTYHINISIVNSDHETYLSAR*PGIN LWHLGNHR*EAFNIVDINKPNANMEELTE VITAEEFHPHQCNVVFYSSSKGTIRLCD MRISSALCDRHS/KSFFEEPEDPK/SRSRF SIEISSIONDVKPSHSGRYMMTRGLPVR WKWVGPTSTWEAAGPVGGPTRVHEYLR TKEIICSLIVEENDCIFUDKPECCWNNGSDSA IMTGSYNNFFRMFDRTDRDVTI,EASR ESSKPRASLKPRKVCTGGKRRKDEISVD SLDFNKKILHTAWHPVQGCYLFWLATN WLYIFQDKIN
4540	12591	A	5438	3	392	FCACFGSKTPASCRAQGRPRGEFSPGP SGPAGGKGKVLKELEPSEM/PP/PEAGERK LERKTVPGRGAEYGPPHRLRSYPQAVNS HPLPSVNGGDSNNSSQLPESHCPPSP KEGPRKGEVPCLHATRA
4541	12592	A	5439	1	297	SLLGPPEPTTW/T/PAPQDR*HGPC*GR*R KRRLSL*T*OWELASP/REPMPFVPKKEM VAIOPLOEEASVGPTPELSSCSRSPISGI SILGNCPSSLPLT
4542	12593	A	544	3	533	AEGDQDJIVLKFVLLGGKNSGAWGRN GRPQGRRRGARFLRLNVGGCIYTARRE SLCRFDKDYNVASMFSGRFLPQLTDESGAC VIDRDGRFLKYLIJHYPWSWRSEEFPMRD TRGRPTGKRADYFGIPVPSLSDHLANE METYSLRSNIELKKAI.TDFCDSYGL.VCN KPTVWVLHYP
4543	12594	A	5440	3	11	HELLISPGPTQQQTPTDEAGVJIRVLKNVP DLAILNSKDALDPRQPGYQPNPHPGPSS PPAAPRPRGA*GNPOLENASRSDRNPSQ GLRTTRIRRPETPDCGPSPAGSSPAPPSS DVPFAFHSSGPPEPTTW/T/PAPQDR*HGP *GDKRKGAPGVAGEPDQGP*GTS

4544	12595	A	5443	1	702	MVAASAAIKFKTNMSLAIAlAEGHVEFA LIPVTAVKYTIVPAFLVMTCWLCSYIER WVDSITPAVTKNFLKPMILVLLAALAIL LIGPIGIGWIGSAISALVVTHIGYLGWLSVA IMGALWPLLVMTGMHRVFTPTIQTIAET GKEGMVMPSEIGANLSLGGSSLAVALWK TKNPTELHLDTPHTESPTPHDSNSHRP/P AGVYNRSKAKSTDKNDQTRWGNWR WSQRKYCLPL
4545	12596	A	5444	195	524	RALTPTRLPCTQSVAASCNLCCLFLADLD TLHTESTPTHDNSNSHRP/PTAGVYNRSK AKSTDKDNDQTRWGNWRWSQRKYCLP LIVLSSFPQTQKNTGTFGRNFLSPFLMYV
4546	12597	A	5445	2	884	VPOFKPKLHLQENGPIGLARCDHQQAQP TRETWLQDRDREFQSQT'KFLLRSRV'L LQLQESQHSLERLRQGRLVEREQAMRM AQQSLLGHWHKHGRQRSLPAVLLPGPGE VMEILNRSESSLCHENSFINEALVQMSFN TFTKLNPSPV'IHDATYPTTQSHSDLVRTS EHQVDLKVDPSPVQSPNSVSHKLWTAAGSG HQHPFHESSSDKNDLDTSHTESTPH DSNSHRP/PTAGVYNRSKAKSTDKNDQ TRWGWRWSQRKYCLPLIVLSSFPQTQK NTGTFGRNFLSPFLMYV
4547	12598	A	5446	269	483	
4548	12599	C	5447	5465	5719	MRLGKTHSTAGAWKMGLLRQADSTRG EKRGKKAAIIICVKSPPGYQVVAWWKY HSSLGVFEEFKKTCVSMGRHDTEKKMS WERP*
4549	12600	A	5448	57	102	RALLYFL*FALFGLT*M*LVS*KLQHIEYE KKQTLGQNDTGFCIDGTANTFRVMFKEP IELPNVCYTCATLKVVRVMHYVPDGFL LNVAECVP
4550	12601	A	5449	3	287	
4551	12602	A	545	1492	1672	KOWHESHPDYDRSPSQTGEDEPCSVH RLFAQGDK*YEATACHRNLDWQKATDI SCNTING
4552	12603	A	5450	1	594	
4553	12604	A	5451	1	768	SVEPPCRLSLGAJVVRWAEAECQRQLPV TFGNKQKVLGALKASLIRFLMLTIEEFAG PAQSGILSDREVVNLFHLHFTVNPKPRVEY IDPRPRCCLRKGECFCNRFQQVESRWSYS GTSDRIRFTANRRTSIVGLGLYGSIHGP TDYQVNQJQIEYEKKQTLGIQNDTGFSCD GTANTRFRVMFKEPIELPNVCYTCATC KGPDSHYGHKR*RKVVHGGHLLASKD CFPFET/ALGINNITSIEDGOIPEIIFYT
4554	12605	A	546	138	257	FLLYLKNAVQNK*EIKQHFLGKJMSKRDN NTLYLTWGTE
4555	12606	A	5460	69	418	LKSKLSDYKINL/QKSUTFVYTNSN*SEK/ QPKKEIOFTNSCKDN^KNYLGINVIKEVK /DLYN/ENY*ILIKNEKNPKK/WRAIPCSV FGRNIVNKFULPKVGYRSNAIPMKMPV TSRTRG
4556	12607	A	5461	2	216	YLFITYLLPRLKCSGVTAHCSLYLPGSKY PPHAS*VAGTIGPATMSS*Y*FWETR FFLCPGWS*GSSSDPSASASQSVIKIGVS HCTCPFRNFRNLAGQLHFTGEETVPRKK GDLPWVYRQTQG*JPGPHRCQVLA*F*PK DFLLSPHYVSTSILWPPTA*AQAEVQWC DHSSLQPLPFRPKISPLSLLSWNHRSC HVQLIFICRDVKVLPPVRLVRELQ
4557	12608	A	5462	59	403	KRGFNFAGAPDKREWGEFG*LPKWPBPG* NNFGSQTLRRSGD*RKTPHGGVNLVFB*E KTGFNSLGRGGLKPPPSGNTPA WPPKGV GITGGASSSPVFCFLGFCENTLNRACKK FI
4558	12609	A	5463	1	242	

4559	12610	A	5464	15	276 ASVTQAGVQWHNLGLSLQPPPPRFKQFSC LSLPSSWDYRRPPPCPTNLFVLVARMVIS*PHDPPASASRSAEITGVNVNHHARPLFL
4560	12611	A	5465	2	309 GOKFNKQKGRRALRCRGGLSGLLSCSK DVKVSSFSVARLQCSGLILAHCNLHLPG ASDPASAS*VVGTPGIVQRHHAQLGFVFLV EMGFHHVGPDMVFDLLTSG
4561	12612	A	5466	1	1209 GGPALDKNVAELTVMDVDILSLVGHE VERVERDHOHGCEAJAARLMPKVVRLLEILE VLVSRRHHVAPELDE RLELAAPLR&VRM DLIEKERKHQELELVEDVWRGEAQDL LSQIAOLQEENKOLMTNLSHKDVNFSSEE EFQKHEGMSERERQVMKKLKEVVDKQ RDEIRAKDRELGLKNEDEALQQQQTIRI MKINHDLRHRVTVVEAQGKALIEQKVE LEADLQTKEQEMGSLRAELGKLRLERLQ GEHSQNGEEEEPETEPVGEESISDAEKVLA MDLKDPNRPRFILQELRDLVHLHERNELKS KVFLLOQELGL*E*RNGRGKPNTPTPTH RPPEPDGPPSRESGIKATCLASFPPEVKKR LGQTHRGNVNHQGVPLDKLGKHTAMT GYIEQRTGSPCSIC
4562	12613	A	5467	1	388 FKDPPEAVRALTCTLRDEFGLSIDIPPLER IPTVPLRLNYIHWDLEDIGHODSDKSTLR RGDIGTGASCICYPILLGATLNGWYFLATE VDDMCFNYAKKNVEQNLLNSDLIKVVKKV PKTLLMDALKGSI**SMTCMNCNPFF FANQIQSVE*YSRNPRRPPPSVNTGGI TEIMAEGELEFVKRUHDSLQLKKRLRI DMAUILLGCVSESSGRKDWWIQLQAPRW YSCMLGKCKSLAPLKEELRJQQVPKVVTY TECFCQRTMRWALAWSFYDDVTVPVHE GRLAGVGTDSQNKKGASASPSSKRRLKE KPKRPITFVLSAVYMKELSLKASPLRSET AEGIVVVTTWIEKILITDLKASINEFPVKEK RKSAFS*RP*KTPGF*GERKESV*DSDKS TLRRGIDIGTASCICYPILLGATLNGWYFL ATEVDDMCFCNYAKKNVEQNLLNSDLIKV VKVPQKTLMDALKGSI
4563	12614	A	5468	72	680 LEVAPRPOSLEIGHTEGERAALPGKAKVVE GRVADDGVPGQPAPWGAPHTAAQPOV HALGSTASQGGSGLGDC*AACR*Q^KAP *VPKQGT*QERSSTK/PRAVPSGHWAGG SGCRSE*RAALG*TTEPQQSGELPGPPW PLEGAAPLSAETGSCVPPRAFGSQGKQ PRPG*AEQPHGDFFPQTGDRHCPPSSTE PSGMTGR
4564	12615	A	5469	259	373
4565	12616	A	547	5	960 PTFSRAVATMFSRKAQGVAGLSAWTLQHQ WIQVRNMATLKDITTRLKSIKNIQKITKS MKMVAAAKYARAERELKPARLYGLOSL ALYEKADIKGPEDKKKHLIGVSSSDRGL CGAIHSSIAKQMKSVEATLTAAGKEVML VGIQDKIRGILYRTHISDQFLVAFKEVGRK PPTFGDASVIALELLNSGYEDEGSUFI NKFRSVISYKTEEKPUFLNTWASC*QHGVSY DDDIDADVAAKITQEYINLANIIYYSLKE STTSEQSARMAMDASNASKASEMIDKVL TLTFNTRRQAVITKELIEIISSAASSVKKENASAS
4566	12617	A	5470	1	336

4567	12618	A	5471	1	1396	GAIHAPIHPNVMPASMGSAVNDAKLKRDK DAYI GHPLFLALLV F EK C E L A T C T P R E P G V A G G D V C S S D S F N E D I A V F A Q V R A E K P L F S S N P E L D N L M Q A I E V L R F H L L E L E K G H E L C D O F C H R Y I S C L K G K M P I D L V I D E R D G S K S D H E E L S G S T N L A D H N P S S W R D H D D A T S T H S A G T P G P S S G H A S Q S G D N S S E Q G D G L D N S V A S P G T G D D D P D K D K K R Q K K R G I L P I V F P N I M R A W L F Q H L T H P Y P V E E Q N I Q L A H D T G L T I F Q V N N W F I N A R I G I V Q P M I D O S N R A G F L L D P S V S Q G A A Y S P E G Q P M G S F V U L D Q Q Q I M G V R P A G T Y E W D G A * I W A W M G N G T T C * P S C * R H S Q S K G E V C R A W P G D V Y V S Q G G P M G M S M A Q P S Y T P P Q M I P H P T Q U L R H G I P N A F H I L P S L P H H P G L D * L H G G T P Y P T W D * L C * A Q S P T M L N S V D P N V G G O V M D J H A Q
4568	12619	A	5472	3	862	T M R P D I D N S Q A A H Q P P G R L P N S R K L K K T R R Q M C C V Q T K K R I A R L P P C C R N T P T T A R S H P G R D C A K P N T * S L R S P G G D C H * Q G N T T W R M P M A R * L S G D E S S R G S P V R T I C H Q P S R S Q S P V D R L Q Q L P A S Q S T Q L P C S S S P Q E T T O S R P M P E A R R I V N K N A G E T I L L Q R S A R L G Y E G S W L Y C L E N K I C D V N H R D N A G Y C A L H E A C A R G W L K F V R H L E Y G A D V N C S A Q D G T R P L H D A V E N D H L E I V R L L S Y G A D P T L A T Y S G R T I M K M T H S E L M E K F L T D L F K
4569	12620	A	5473	1	444	K L R L W L R Q E I N C L N L G G G C S E L K S H I C T P P W M I E G D S I * K K Q N K T K T R K R K P Q G S H S I / L S G G P D W V * Q N C E V S Q V L P I S H P L L Q D I L P P L P Y L G A N Q A G E Q G A T D G H * R T T I E S H R A S V G C R I P W L C Q R P L A L A L S F C L C M E R T I P
4570	12621	A	5474	2	330	E M S F A L V A Q A G V Q R H N L G S L P L P P G F K * F C S L S P P S W S W D Y R Y A P P T P A N F A F L V E T G C L H V G Q A G L K L P N S G N L P T S A S E S A G H I G V S H C A Q P G T A T H S N T V L S G L F C
4571	12622	A	5475	2	363	E L D T L C D L Y E P * P S S I F I N T R R K / V D W L T E K M H A R D F T V S A M H G D M D Q K E R D V I M R E F R S G S S R V L I T T D L R I G R G G R F G R K G V A I N M V T E E D K R T L R D I E T F Y N T S I E E M P L N V A D L I
4572	12623	A	5476	112	434	A R G I D V Q Q V S L V I N Y D L T I N R E N Y I H R * A * I W T N T P L P L H T W P S L G L K L L I F P L F V F O I G R G R G F G R K G V A I N M V T E E D K R T L R D I E T Y N T S I E E M P L N V A D L I
4573	12624	A	5477	3	724	N S N V E R E E W K L D T L C D L Y E T L I T T Q A V I F I N T R R K V D W L T E K M H A R D F T V S A M H G D M D Q K E R D V I M R E F R S G S S R V L I T T D L L / A E * R E L I A K A E G R I Q G D S L S K G T S V P L R K V A A W N I I W H A * G L W G T G M L I S S A F L G C P H G C L S V F P P G * S V L R A H E E L S F L T H A R G I D V Q Q V S L V I N Y D L P T N R E N Y I H R I G R G G R F G R K G V A I N M V T E E D K R T L R D I E T F Y N T S I E E M P L N V A D L I

4574	12625	A	5478	1	1274	MSASQDSRSRDNCPDGMEPEGVIESNW NEIVDSFDDMNLSESLLRGIAYGAFKEPKS AIQQRQAIFC1KGVYDVAQAOQSFTGKTAT FAISILSQEILDLKATQALVLAPELRLAQ QIQKVVMALGDYMGASCHACIGTNVR AEVQLLQMEAPHIVVGTPTGRVFDMVLRY KATLSPSKYIKMFVLDDEADEMLSRGFKG QIVDISKRLNSTTKVVVLLSATMPFDVLU EVTKKFMQRGPFRILVKKELTLEGIROF YINVEPEEFNNDLTLCDLYENLDHJHPQRQ VIFHQPPGGKCVDWLSPEKMHARDFTV SAMHWRFWTOKERRT*L*REFRSGS*PE F*ITPLTPAQRADFVASRVSF*SFKLMTL PPPTRGKLLIHRIGSRVDRFGRKGVPIIM LTE/EKTRRNLEDIEFVYNTSVEEMPLNV A
4575	12626	C	5479	114	302	MKEEILKKTAELYKRAMXNICKKHHIS WVVKKAPSRRFJKWETRLGLKTAHSPNVF LQQGOR**
4576	12627	A	548	1326	1780	KLKPARYGLGLSLAYEKADIKGPEDKK KHILLIGVSSSDRGLCGAIHSSIAKQMKESE ATLTAAGKEVMLVGIGDKIRGILYRTHS DQFLVAFKEVORKPPTFGDASVIALELL NSGYEFDEG
4577	12628	A	5480	1	2043	
4578	12629	A	5481	153	332	QTFVLAEGKH*ENE/PVFKNVSPLDREW REGAPPKSDVSASFISIALLYNSAAFSS PPS
4579	12630	A	5482	2	904	VHVNLIKHLQLCTRNRNKRNFKLHFPRKK SMFGHQRAIKKKGNLYGFALLRRRALQ VEETLGCQDTDPNARTLNELGGLYYIQLQ NLETADQVLRKFL*MRERVLGPDPDC AQALUNNGAGSYAMKKNQYDQKPEDLVK RALDIGRRALAPDHPLAYTVKHLAILY KKMKGKLDKAVPLYELAVEIRQKSFGPK HPSVATALVNLAVLYSQMKKKHVEALPL YERALKIYEDSLGRMHPRVGETLKNLAV LSYEGGDFEKAELYKRAMEIKEAETSL LGKAPSRHSSSGDTFSLKNQQLHFS
4580	12631	A	5483	2	331	PQGHGETLPLLKIQKULAGQQGTS*SEPL RRRLQENCNLNLGGRCSETRSCHCTLV WWTGRDSIEKQKTAVIDQAEERVSLEEDR LFENTOSSEKTEKRIKISTLRGFRX
4581	12632	A	5484	26	117	AKGOVALGRPGARMQGGSKVVGVLAG PGSRSEAGTVPSYPAAQTRPHPPPQPLLIF RSPGVVPNGHQGPNTASSKQCNLRC WGLPTVARHPKSQRPQ/PRPTR*PGSP QGPTPGRKNPERP*LVQQ*PCWAREPV
4582	12633	A	5485	111	270	
4583	12634	A	5486	240	406	
4584	12635	A	5487	128	657	ESSYWAICSRKRSRPNLSSYOGHIYLKIR CPVDSVGRGFLTIFEDVSGFG/AWHR RWCVLSGDCISYWAYPEDEKRKNPIGRI NLANCTSRSQIEPANREFCARRNTFELITV RQPREDRETLVSQLCRDILCVTKNWLIS ADTKKEERDLWMQKLNQVLDIRLWQPD ACYEPIGKP

4585	12636	A	\$488	1076	3513	IKALSSAEDASLVNASISSLVSKATSPVKS TTSITDAKSCEGQNPELLPKTPISPLKTV SKPIVKSTLSQTVFSKGELSREICLQSOK DKSITPPGDTGIKPFLERFGERCQEHSKES PARSTPHRTPTIPTNKAQERLFKQDTS STTHLAQQLQERQKEACLRGRFDKG NIWSAEKGGSNSKSKQLETQETHCQSTP LKKHQGVSKTOSLPVTKEVTEENQPAKN SSTEPEKVEIREIMSVDDDDINSSKVINDL FSDVLEEGELDMEKSO/AGDGSSISR/TA AKNRKMH*ISPQCLYLHHWHKQLV*V* CPHLDWN*KTPAEMVKVQNQENSEKELV S/RAESEDSLGSEDRDLLYRSQRFKETE RPSIKQVIVRKEDVTSLKDEKNNNA/PFCQ VNPKQKMQELNNEINMQQTIVYQA-SQAL NCCVDEEHIGSLSLEEAERLLLJATGK RTLLIDEKLKNNEGPQRKN*G*/SAPSF IAIPKDQFTLSEIRLP*KADFVCSTVQKPD AANYYYIILJKSRSVEMMVATPLASTINS LNGDALTFITFTLQDVSNDFEINIIEVYS LVQKKDPGGLDKKKKTSKSKSNHSSV MASPGGLSAVRTSNTALVGSYTLISLSSV GNTKFVLDPVPLSSLEGHYILKIKCQVN SSVEERGFLGCPCGGGRQPKRQJTFEDVS GFGAWHRRWCVLSGNISYWTYPDDEK RKNPIGRINLANCTSQRQEPANREFCARR NTFELITVRPQREDDRETUVTNAGTHSV FTKNWLSADTKEERDLWMQKLNQVLC DIRLWQPDACYKPIGK
4586	12637	C	5489	135	206	MFIIFAGFKSIPKITTTFQSTIVG*
4587	12638	A	549	20	403	KVQQPHASAHASGEGSLSLTIUPVTRSPLAT MNHHVQTFSPVNSGQPVNEMLKEEOEQ AMLGAPHNAPPMSVTIHIRSETSVPDH VVWSLFNTLFMNTGCLGLITFVYSVKA RDRKMGRKTRPGAOQ
4588	12639	A	5490	67	388	DAVFA/GAMPMTMASVSKLSTLHPIVNHPH YEDADLRLPGCSMLEIWDVEDPSNAANPP LRSILLEDARPKMPVQNSVYRVLKVN* EGNYPLHYGTMPCVKVNNHPLAYLH
4589	12640	A	5491	3	107	SIKSLSTLHPIVNHQHYEDADLARTKIV YSTYSRISAKAKEVRDKLLELHVNNYYVLEE AWCVVRTKFILODGPGVLQAAEK*COM VTQIYKKYSNALEMPAGCSMLEIWVDVED PSNANPPLCSVLEDARPYFTTVFQNS VYKVLKVN*EDADLARTKIVYSTYSR
4590	12641	A	5492	3	289	YLLSPPEPESMGAIFFDPAHVVVYIIFMLGS CAFFSKTWIEVGSSAKDVAQLKEQQ MMVMGRHRDTSMVIELNRPVKVLRWK GEGRHIFTKRLFY
4591	12642	A	5493	2	652	RVDLPIKSRARYRGQYSSYPIKLFYTSNIPII LQSLAVSNLYVISQMLSVRFSGNFLVNL LQQWADVSGGGPARSYPVGGLCYLLSP PESMGAIFFDPVHVVVYIIFMFGSCAFS KTWIEVGSSAKDVS'TA*KEQQMVVMR GHRDTSMPEHLNRYPIATAAFGGLCIGA LSVLADFLGAIGSGTGILLAVTHIQYFEI FVKEQAEVGGMGALPF
4592	12643	A	5494	58	596	KFIFRDGGSLCCPSWT*TLGLQQSSHIMSL PSWDWSRVRATKPNPFPS*HSFISALY'M HLPRSLPLNFQPCRFYKGPAGLSRGGR* HGL*SDFSVANLWQLGFLWQALTDYRA ELPGMDPIJSTHLAKLYDNLLEQNLIJRVE PFSRVQVRTLWGLHFWPGILTATSLPH LSRMGTHF



4601	12652	A	5501	1	2508	MPHQLGPNLVPDIPPKCTIKDLLPKKEKSS TEAVFHTVTLERHESPDIEDFSKFKEPKQN VHDFFECQWRDDTGNYKGVLMAQKEKG RQDRDRDIENKLMMNQLGVSFHSHLPE LQLQFGECKMYCNCNQVEKSTNNNGSSVS PLQQIPSSVQTHRSKSYHELNHFSSLTOR RKANSCGKPYKCNFEGKAFTQNSNLTS HRRHSGEKPKYCSECCKJFTVRSNLTH QVHTGEKPKYCCKECGKVFHRNSYLATH RRIHTGEKPKYCNECGKAFGRHGSNLTH OLIHTGEKPKFCNECGKLFQNSHLISHW RUHTGEKPKYCNECGKAFSVRSSLAIHQ IHTGEKPKYCNECGKVFVFRYNSYLGRHRR VHTGEKPKYCNECGKAFSMHSNLATHQ VHTGTGPFPKCNECSKVFQNSQLANHR RHTGEKPKYCNECGKAFSVRSNLTHQ AIIHGEKPKYCIECGKSFQKSHLSIRHG IISGEKPKYCNECGKFAQTSQSLARHW RVHTGEKPKCNDGCGRAFSDRSSLTHQ AIIHGEKPKYCNECGKVFHRNSYLATH RHTGEKPKYCNECGKAFSMHSNLTHK VHTGEKPKYCNCQGKVFTQNSHLANH QRTHTGEKPKYCNECGKAFSVRSNLTH QAHITGKPKYCNECGKVFQVNRSLAN HRRHMTGEKPKYKNECGEVIRYNSLSSH SHRHMTGEKPKYKNECGEVIRYNSLSSH QJLHS*QNPYKCSDSQSLMS*SNRYER P*ARD/YHVNICGRGSIQASQVTRHQDFI SLMRNKNCNMHEAITQ*PMVSEDS
4602	12653	A	5502	3	361	
4603	12654	A	5503	32	392	FLFSFPPLSLFKMTLNDAMRNKARLSTITG STGENRREVMTPEPFPAVHAVPFT*SPGH GNGMSSVITESGLLIRTLLLSALPQWFSC VFIVQSGERHPSILEDFSQPKNSLNMWSS SILKL
4604	12655	B	5504	473	524	MGEAKKTGEQRVRLPRTX*
4605	12656	A	5505	1	627	LVSFFFFFFCRDRVSPCCCLGWSPG LKSARLGLPQCWDSRRELPRPAYLLFL LSWGPSPSAWQEGG/WCKKKRGTERHE VPSIPSCTCPSPTVQQ*S/GEKQVQETGRQ S/LGEAKKTGVWQHIDQGSLOP*SGLK*S SYSLFLSS*DHRCAPTPD*FL*R*DPTML PRLVLSWAQ/CDHPALA/SQSTGUIGLSH RAWACDQNSHFF
4606	12657	A	5506	3	649	RVSSVMSTSLEEINNCIFDAHVPPLGKA YPSQKPLAAWTRDLAMRVEQFELWASR ARPPVWLSGFTPTGFLTAVLQSSARQ NNVSDSLSWEFIVSTVE*QAT*VYPPKD GCWVWRGLYLEGAGW/DPEELLGGRQS PCKLVWLMPTIHFRPAESRKSKSPKGMY CPLVYYPNRAGSSDRASFVIGIDLRSGA MTPDHWIKRGTALLMSLDS
4607	12658	B	5507	167	377	XKLJQFGLMKNLJIRRLQKYPVVRVREQ SHPARLYTGCHSYDEIICKTGMSYHELD ERLENDPNIIICWK*

4608	12659	A	5508	2	1247	TPLREERGATGLGPVIAMGSGCRIECCIFPS EFHTIPLGPKITYQVPPEDFISRELFDFTVQV YITTKPELQNKLIT/VLESSFVSMEESESKQK LVPIMTILLEELNASGRCTLIDESNTIHL KVIQRPDPPPVAQEYDVPPFTKDKEDDF NSQWDLTTQQLPYIDGFRHIQKISAEAD VELNLVRIAIQNLLYYGVVTLVSLQYSN VYCPTPKVQDLVDSDKSLQEACLSYVTK QGHKRSRLRDVFQLYCSSLSPGTTRVLRI GRHPQQLQHVDERSEEENLGHILGTV*GK LDPLCLSGALDHGALPIQAGFLEMMGYRG DKIEGRLQERVGLPERRPGQGVTPSSDP HPRKLIQFGLMKNLIRRLQKYPVRVTR EQSHPARLYTGCHSYDEICCKTGMWSYHE LDERLENDPNIIICWK
4609	12660	A	5509	1	512	CTLPIDESNTIHL*KVIEQRQTPRVAQEYD VLVFTKDKEDDFNSQWDLTTQQLPYIDGFRHIEKIS GRHRKISAEADVELNLVRIAIQNLLYY GVVTLVSLQYSN VYCPTPKVQDLVDSDKSLQEACLSYVTK SLQEACLSYVTKQGHKRSRLRDVFQLYCSSLSPGTTRVLRI EICCKTGMWSYHELDERLENDPNIIICWK
4610	12661	A	551	137	838	SSGICSLALWPWPAFLHNARKRKLRR RNWPKRGEGSLRTIPVTRSPVLTVMNHIV QTSPVNSVGQAIPNYEMLKEEQVAVL GAPOKPCPLPECPPVVIHSETSVVPDHV/V WSLFNTL/FMNTC/CRLGFIAFAVSSEVS GTRKMVGEVTRAQGLLPPPCKLNWNAI LILGIPMNQFLINHPFPSPVGSSRPSDRSG RHHLRPRELCPVEPVSVQKNSIFHSLALP PEARFKCP
4611	12662	A	5510	1	474	HITIHLKVIEQRDPDPVAQEYDVPPFTKD KEDFFNSQWDLTTQQLPYIDGFRHIEKIS AEADVELNLVRIAIQNLLYYGVVTLVSLQ VRLIQFGLMKNLIRRLQKYPVRVTR SHPARLYTGCHSYDEMCKTGMWSYHE LDERLENDPNIIICWK
4612	12663	A	5511	199	562	KESPGPGRHVPLIPHP*ES*IPVRAL*KN LIQATYRKYPVVRVTRREEAHPARLYTG CHS/DEICLQDRWRQAGSQGGFRAGCA RPRPLTSPPPHPGMSYHELDERLENDP NIIICWK
4613	12664	A	5512	1	1224	EFGTGRPLREERGATGLGPVIAMGSGCRIE CIFSEFHPTLGPKITYQVPPEDFISRELFD VQFYITTKPELQNKLITVAMEKKLIGCP VCEHKYKSKNALLFNLGFVCDAAQAKTC ALEPIVKKLAGYLITTLELESSFVSMEESK QKLVPIMTILLEELNASGRCTLIDESNTI HLKVIEQRDPDPVAQEYDVPPFTKD FFNSQWDLTTQQLPYIDGFRHIEKISAE ADVELNWVRIAIQNLLYYGVVTLVSLQ YSNIVYCPTPKVQDLVDDKSLQEACLS YVPKQGHKRSRLRDVFQLYCSSLSPGTTR VRDLJGRPPSSCQHVDERKLQIQLGML KINLIRRLQKYPVRVTR TGCCHSYDEICCKTGMWSYHELDERLEND PNIIICWK
4614	12665	A	5513	2	313	FETEYSVAQAGVQWWDLGSLOLPPPGF KRFSCLSLSSWDYRPPPPRLANF*FLVE TGHHVHGQAGLDLITS/GDPLASASQSA GTTGLSHCAWQTTYTIFNKH
4615	12666	A	5514	731	1156	SVGLLISDTSNTFLSFFFFFEMESHSLAQA PLOWHYLGSLSQAPPCKLRLPGSRHSWA SASRVAGTTGARHJHARLJFGLVEAGC HRVSQDSDLLLTS*STCLKP/AQSAGITR EPPTPGLLFFFLKMECSVGPRLGVQSW
4616	12667	A	5515	3	365	LJNSRPVDFFFFFFFLFLSHSL/DJVSVQAGV QWHNLGSRLJLQSPIPPGSMPFSCLSLSS WDYRUPPPYLANFFFPCIFPSRD/MGFTML ARMVSIIS*PCDLPALGSQSAGITGVSHHA

					WPAYFYPQ
4617	12668	A	5516	400	619 MPEQICPLETSQS*INNLPKKKFFMSI*CP Gfersyff*CC
4618	12669	A	5517	274	693 KYQILLYNGDVMACNFMGIDEWFVDS LNQ/KGV/EIPGP/GIEPAGEEWGAGMPG SGQLAAWI.WAHRQGVWRNSQP*GLAG SCEOGCSCCRMLSMFLVGQMEQRRLWL VKYGDSSGEQIA/GFVKEFSHIAFLTIKVGT GPAER
4619	12670	A	5518	3	766 NRLWSSLLOTHCCSQNKCNFYIDNKDLEC VTNLQEVARJ/VGNSGLNINYNLYAPCAAG GVPSHFRYEKDTVVVQDLGNIFTRLPLK RMWHQALLRSRGDKVRMDPPCTNTTAAAS TYLTNTPYVRKALNPIEQLPQWDMCNFL VNLSQYRVLPSQNSRUYLKLSSQYQIL LYNGUDVMA/CNFMGIDEWFVDSLNOQK MEVQRRPWLVKYGDSGEQIA/GFVKEF SHIAFLTIKGAGHMVPTDKPLAATFMP RFLNKQPY
4620	12671	A	5519	2	279 FLRDVILL/CHPGQSVVV*S*LTTT GSDDPPSSAFNCNSWEYRCVTPCQLMF*FT LLSIGIGSTLPRPVLNSSPQVILAPWP/PKV LRLQE
4621	12672	A	552	1	528
4622	12673	A	5520	2	1045 CPSRPCRRRPPRPGPKPRASYPGPPAP/P GDKKKRPPQ/GPRGSSPAPGPPVPOEAAA GPAPRPPGQDAAAAGPSGR/PPQALPSVPR GQOPRAPRPGRQAPATAQRGPPMRRPRR GRGPPRAAPP/PAGPC/PLRLCALLPES PRGRPGHPEASSGEEAAAAGAAAPQALPLTL GRTQAPTRPVSPG*GRGPAEGRPRQR/P THPPPAGPGRASARRPAAARRPAGSPA QPAARGPAADAOQVAQRAAQVRERRG VRGGARGGGRRGP/RGPRGRP/PGSSGROR PLSGP/SAQAGPRGAQPDSPDGHGPPPAL ASRQGPFSFTPVSTPDACLCPHSGLL ASPIHAVRGEELSN
4623	12674	A	5521	84	202
4624	12675	A	5522	3	576 ILGPFVVRWGSIIHTVAQAGQVQWCDHGS LQPRSPGVK/*SSHLSLLGSWNHRHATT PG*FCFSRIRSHCVAAQAGL*LLTSNHP ALASQTVGIGTVSHWTWPNTPGFSVLLTA TNKNLKFFFHYAISKLCLVRAKLSSRLKIE ERNKALSAPVVSVISFDRVRLRLGYSAS DWQPEFVETA/VSNEVITY/GFRQ
4625	12676	A	5523	177	904 ESHLQNQDTAAHPLLNGETCGVSPPLTS RQGVVRRRTQSSTSRTCS/PVPKQTFTPOP VLHMSAGVALDSPAPPWRWPQPPPQQGF AHT*DRKEEGDPIGIWAPEGKSCPTKPPP PSLRPTSPGWKRALKQKGDTGCPGSTAS TPIPLILGPSQAPPKPKPP/PSPGVPACAP S/YPALPAPSIISTKEEQARAPGQGDAG HTVGGGAA/GRREGQNKTFSFGFFSF FLPTLWWVLLJLSESL
4626	12677	A	5524	1	173 FLPGSKFPPPGFPFFFFPPPRERGNQRSS PPSSSS/P/PSQKKTGVPPG*PGFF:PPPP
4627	12678	A	5525	1	390 LILNTKRPAAFIDLLIIDLDPKEQAYADLV SAYTLNSMFWLYLATQGVNPDTDHPVKH ELDTT/RACMRNRSSSPTDKKKAGLLYRG AASKFVKNALWEPKSKNA*KVGNKGS PTSLFGFDVHIFKKNMLPPP

4628	I2679 A	5526	I	1548	MPERDSEPFNSNPLAPDGHDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPKSRR HHMPREYNEDEDAARRRKKSYYAK LRQOEIERERELAEK YRGRAKERRDGVN KDYEETELINTTANYRAVGPPTKADKSA AEKRQRLQESKFLGGDMEHTHLVKQLGD FALLQKVRAEIASKEEEEELMEKPQKE TKKDEDPEPKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYV/KVDCPTMEA QTILTTNDIVISKL TQLLSSYLROGTRNKK LKKDKGKLEEKKAPEADRSIFEDIGDY TPSTIKTPWDKERERYRERDQ/RDRLDR DRERERERDQERERDRERERDRER/GPG SAKELIKSINEKFGASAGWEGETESLKIAE DKKQLRDPFGMSNSY AECYPATMDDM AVDSDEEVTDYSKMDQGNKRTLSRW FDTQDYSEYMNNEALPKAAQFYQGK MSEGRKTRRFKETNDKAALDCQWKISAI IEKKKMEADGVEVKRPKY
4629	I2680 A	5527	I	3162	
4630	I2681 A	5528	2433	2540	
4631	I2682 A	5529	I	1739	MPERDSEPFNSNPLAPDGHDVDDPHSFHQ SKLTNEDFRKLLMTPRAAPTSAPPKSRR HHMPREYNEDEDAARRRKKSYYAK LRQOEIERERELAEK YRGRAKERRDGVN KDYEETELINTTANYRAVGPPTKADKSA AEKRQRLQESKFLGGDMEHTHLVKQLGD FALLQKVRAEIASKEEEEELMEKPQKE TKKDEDPEPKIEFKTRLGRNVYRVLFKN/ KAYKRNELFLPGRMAYV/KVDCPTMEA QTILTTNDIVISKL TQLLSSYLROGTRNKK LKKDKGKLEEKKAPEADRSIFEDIGDY SDOREGVCTFLVSGLGRC*HNELEKWS GGVKVYY*IWPSADLHFPSIFEDIGDYV STTICKPRDKERERYRERERDRERDRD RERERERDR *HERERDREREEKKRHSY FEKPKVILLGPWTDFKGPGSTKELIKSFI EKPAAGSAGWEATESLKKPEDUKKQLGD FLGMSNSYSECYPATMDDMAVDISDEE VDVYSKMDQGNQEGGP*ARW\DL*FPOE EYKRVFTVITKEALPRVAFQYQGKMSIE GRKTRRFKEPQ*PKQSLSRQWKI
4632	I2683 A	553	I	1682	MDNLSDTLKLLKITAVIDKTEDSLEGCLD CLLQAQNNTIESKIQASGLQLFASL LTPQSSCKAKVANIIAEVAKNEFMIRPCV DAGLISPLVQLLNQSKDQEVLVLTQTRALG NICYDHSLQAOQINMGVIPITLVKLLGHI CQNALTEMCVLAVFGNLALESSKEQFA STNAEELVLFKKQIEHDKREMIFEVILA PLAENDAIIKQLVAGLVECLLEIVQOK VDSIEKEGGITELKTGSIDLMLVLLLGDES MQKLFFEGKGSVFQRVLWSWPSNNHQL QLAGALAJANARNDANCN\HMVDNGIV EKLMDLLGRHVEDGNTVQHAALSALR NLAIPVINKAKMLSAGVTTEAVLKFLKSE MPPVQFKLLGTLMJIDQAEEAEPIGE RMLKLVUELVVGWC EAKDHAGVGMGIEQ NRLLSALIRHSKSKDVIKTTIVQSGGKJHL VTMATSEHVINOMEALVALALIAALELG TAEKDLESAKLVQIHLRLADERSAPEIK YNSMVLCALMGSECLHKEVQDЛАFLD VVSCLRSHENKSVRQOASLIEQRILTIVES
4633	I2684 A	5530	93	546	YNCRPTLGVSGCAGLDAQVVCQDCAFE LGKPK/PSGEQYQSSSAIKOQPKEPYAD FIALRQESLKKVIAIDLAAQDIVLWLLAFD NANPECQAALRPIRGKAHLVDYTKVCD GIRDKLHKATLLAQAMAGLRLRMGKGNTP FPGACFNCGKHGH
4634	I2685 A	5531	I	541	

4635	12686	A	5532	365	661	
4636	12687	A	5533	3	74	RMGPRTPGP*VFPETGFPPLSNL
4637	12688	A	5534	83	262	CTVTPPPQDTGSKS*STRVSSLVPRSP TAPVTLRPGFEPP*WTPLAKTSVLTQC
4638	12689	A	5535	636	698	
4639	12690	A	5536	125	340	
4640	12691	A	5537	81	1007	QPKAEHAALNLRKTFQHASHTPPFSAAQQ *NPHRPHQPWL*HAI.VQHCSCSDMQRPS ASGP*/PPGTFSRKWSSCKMPVPPAQVPK SLCGVLSSSC*GRRSPGPNEPPSRACRP CRQDSC/GQAQGPCCRQDSG/PPAGGPR DKV*ASQGPGLPAGERAIPAGGPCRQDRQ PRLASSAGGHCHCROLRG/TPAGGPCRJ/P QRAAPAGGPCRQDSEQLRLAGPAGRUA GRHGRSPGPAAEPPSRACRQESG/PAQAG GPRCRQHSG/PPDAGGPRQQLSLPAGPAR RRAGNPGRQPLQTGQRRAEEGEPAFAT AVSGRD
4641	12692	A	5538	1	766	
4642	12693	A	5539	74	1178	
4643	12694	A	554	3	910	GRPPRVPPWLRRERRLEGGHRAAPPAPY DLRJLAPPVPHPRGATWQIILSDTLKKLLKI TAVDKTEDSLEGLDCILQALAQNNT ANKCKKSQVAILQLFASLLTPQSSCKA KVANIIAEVAKUNEFMRIP/CVDAGLISPL VQLLNKSDQKVLLQTGRALGNICYDSHE GRSAVVDQAEQQAQIVIDHLRSLSCSITDPA NEKLITVFCGMLMNYSNENDSLSQALQI NMGVPIITLVKILLGMHMHCQNAALTTEMCL VAFGNLAELDAIKLQLVEAGLVECLLEI VQKQVDSLKEDDITELKTSQSLMV
4644	12695	A	5540	1	857	MGQVWGLVHFTLELFQTDDEEEEQEYNK VTEETEHVYLP*A*PDVHLNQPSHQOPK AGLQLY
4645	12696	A	5541	518	578	
4646	12697	A	5542	750	797	
4647	12698	A	5543	2073	2844	IVRSLSRTAQKIRSGCPQCWSW*RRGRPVG SPSQSTEGPQGOVRLRT*PLPFHTHPEGGP GAGRGRSSLERPTSQPHRSQSGRCAPA ATPLPSGPQAPLGAFFERG/PRSRSA/QG APGTGVRRFSMAQPFPCCSTSQPLKPCSP QELKMRRLRKPGQA/POSSAPGRGTAGTPCCL RCWAGSVEPLRRVRGPRRRCGRGAAA TQWARPLCRARRGTLGGIA*FRSVARG SAPAPAAPGAARPGPQGMGPAAVAIAIG RP
4648	12699	A	5544	3	611	SLPRASRLPFGPSFSGWSPGDNRKLPTI PPPRAGPRPPSRAPFA*TPGPPSAGSWP* PPGTGSAPRGPAPSAPGARRRGRPGCCKPA PAGRPRVPTAGAGACSAASRPGTRPRCT RPGAPRSRRGGCPCPGA*PGARRPPR RPPATRAPRSRSPRGAAPPTPTARTGA AARELKVQRGP/APLH/APQQHPTAAIVP YKM
4649	12700	A	5545	3	42	
4650	12701	A	5546	1	160	SMQQTLLLSSYF*KLP*PPQPSATMTQISQ QPSTSRSQDPPTK/RJ.*LVEGSNNH
4651	12702	A	5547	298	421	LHPIHLIDKLLHQ*KVVSVSEYRQNQE VPLSISSNLVHS
4652	12703	C	5548	598	762	MNSMIQICQDRAEIISSYCNLKHQRJQN LLISFLQSLKKLNVNLSFINKLK*
4653	12704	C	5549	138	296	MNLEVTVARDYLSPLADLAQRRGNIQ EIQTQDNKVVIIGFVPLAEIMVGTL*

4654	12705	A	555	1062	1421	DRVSLCC/PRLECSGMISAHCNLPSGFCFQFCLSLSPNGWAVRSVPCCPANFCVF/SVETGFHIVVGQAGLELLTSGDLPALASEKCIWDYRREHTARGPVTKPSYFQVLFRLLHPIFIHLNT
4655	12706	A	5550	2	1575	AMLGLTRVERCLRVLDGAVAEDASAGVEAQTLTVWRQADKHNIPRICFLNKMDKTGANFKYAVESIREKLKAFLQLPQGEAKTFKGVVDMVVMKEKLLWELQFK*WEKTLRKAPLGK*MIFPEFAGRETT*RKEC'L*LEQVADLDDDEFADLVLEEFCEFNFDLLPAEKLQTAIHRVTLAGTAVPVLCGSALKNKGQPLLDAVTMYLPSPEERNYEFLQWYKDILCALAFKVLDHKQRGPVFMRIVSGTIKPKQIAHNINGNCTDRTQIALSVNNHEVHYKCKNGRQCVKAHLEKHNGHITDIDWAPKHDHIVTCGADHNAYVWSQKDGVWKPTLMILRNRTATFVWKWSALENKFVGSEARLISVCYFESENDWWVSKHIKKLIRSTVLSLDWHPNNVLLAAGSCDFKHRVFSYYIKEVDEKLASMPWDASKMLFGQLMSEGGGGGTGGWVHGLDIPKQSJQRNMSAMECFCNTDKRATTGESNSNMALKMLRQNSITQSYIEVDEKDCRKYCITTGEP
4656	12707	A	5551	1137	1288	RTLNLLKAMASRVLRIILITGR*CLDVSIKIPLENLGE SIMVDSL MVKVP
4657	12708	A	5552	1	1851	MALKKADKQVLEPLMNLNEVTDYDHALDYLSPVLAQRRGNQEQIQTQRDNKVVIQFVPLAEIMVADLDDDEFADLVEEFSENFDLLPAEKLQTAIHKSDTKLRRQQLPVLCGSAKKNKGQPLLDAVTMYLPSPEEL*L*FM EFLQWYKDDLCALAFKVLDHKQRGPFTGYAAPPNSRPL*KPQLAHSIILMETATERIS RLLPFADQHVEIPSITAGNIALTVGLKHATGDTIVSSKSSALIQLQVEPNGREKRSTDKTMKAERLLAAGSGRFQEPVFFCTIGTPITV*GSQIWEHAFEMSFSVRIPVVKVR LDPSGQTVLCGMGELHIEIIIDRICKREYGLETYGLPLQVAYRETILNSVRATDILDRTLGDKRHLVTVEEARPIETSSVMPIEFEYASINEGGLKVSQEAIENGHSACLQGPLLGSPIQDGNYLYIP*QIHPWAPSTTYDFCLCLKMPCKKALERKADKQVLEPLMNLLEVTVARDYLSPVLAQDRGNNIQEIQTQRDNKVVIGFVPLAEIMGYSTVRLRTSGSATFALESSTYQAHESSSRSKYTAQP EKWFDLNLVLFGRGNNSRHPRLLHFSTRNNGFCYLLGRNKGTGVSQTRGT
4658	12709	A	5553	2	499	RCKOQAKETPVNRHHCRCKGCVVCGFCSEKRFLLPSQSSKPVRICDFCYDLLSAGDMATCQFARSDDSYSQSLKSPLNMDMSDDDDDDMMTVTKDTFGSI*SGEAL*EINFGGNARL*ALS LDCSITMNLPEKLGTYYVQPYI*KEGAPAFCISSISSTGIGFCYI*
4659	12710	A	5554	147	315	LIPQPGWGOHLPPLPPNISNYD*RQKFLGLPHPCSGGRALTPHWSTGLRLTPSAQ
4660	12711	B	5555	105	508	XPGTREVEELNALQEEIAPGLVILGFCINQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEGDVNGEEIEQKFYTFLKNSCPPTSELLGTSDRLFWEPQESSRHPLELWKF LVGQMDTJIHALHHRPRQQR*
4661	12712	C	5556	4	165	MCLSGNRYVHLCACSCVVPQGCITLSSLQFSTPMIVLHHLNPKEPALGPVILL*
4662	12713	A	5557	1	1803	

4663	12714	A	5558	2013	2024	KVAGSAGHLRRTVARDQAAQRDPCEA PTPSLARLLQASCLSLLLAGPVQSRSRGQ EKSKMDCHGGISGTIYEYGAITIDGEYI PKQYAGEVVLFVNASY*GLTGHVH LN*TALIQEELAPFLWLGLFPICNQAGK QUEGENFRRSPPNSRVSQPTKVGFGCSL NFPALLRKGDVNGEKEQKFYTLKNSCP PTSEULLGTSDRFLFWPMKVHDIRWNPF KFLVGPDPGIPMRWHRTTVSVNKMDIL SYMRRQAALLG*RVGCPPFSFKLIVFPSR VYSLGGGWISLFPQNKGSFPKFPSPRFL GPP
4664	12715	C	5559	2	226	MLLPLPPSPSPSTALPGLGEMGGRPPPPY MLSVAQPQTCFISHSSPSSHRSVSFAFPCS VLPSPSQFLHRTSF*
4665	12716	A	556	213	513	GOKSLARRVPKGRCMDGLLNPRESSKFA ENSRDVFIDSGGARRVAELLAKAAGPE LRVEGWKALHELNPRAADEAAVNWVF VTDJTLNISFWSEQDEHKW
4666	12717	A	5560	2	1308	ALSLALLPPASPP/AGRGRPAGPGPAPL WHOGGLPLTRPGPEG/PLPGRLPSPPLQ IPAQPLLPAFPPLPPAPGPRRVGFAPWC P*SPGLSPPGGLPSDFQTLPCGISFL/PEMR KLESWSPAGEPSPAPPATRVSSRMQLP DPLTLLPPAGPKATFNFSYGV//PPPAPE/PS QGRVRGHPEPTGPILLHSQQEAPLPP GPPCCYGDATAF/PRTEGPPSLPTIRALSS PPPRFPADVVCVLSVSLVLCPTSLVVPPM */PHPCCCTGSLSWLPPLMMMLLPLPPSPS PSTAALPGLGEMGGRPPPPYMLSV/AQOTF CFISHSSPSSHRSVSFAYPCSVLPPP*APA WAQDPILPARVSPSGRVPFFC/PPPSHPT PGSEAPHS*PSVFLRKWLKATGPQAQPSA PPKGPNLGPHKPLWKLFLSCASHSPRFS TELPF
4667	12718	A	5561	3	259	FLFWVFQIPAFFPEYVTDLCLCTPTASP GYLAAGRDKAQRQRLWERLRRVVFQRLA DGA*AGEAGGSTPTNTVTMEMQCPCPNA S
4668	12719	A	5562	2	329	AGVQRNLCSLQAPPGRSRSLSLPSS QVAGTYRPPSPANFLY**RRGFTTV NQDGLDLTTSGSPASAQSAGISGVSHR AQPSFTFRLACHVFRHCHLPT
4669	12720	A	5563	3634	4389	LIQFLLLHSIGLYSYTTICLFLILLMEYWL FPVFSYYYYYFFLRRSLALSPGWSAVV QSRLTATSASQVQTILLPQPF*LGQLQC ATTPS*FLY**RRDFTMLARMVLIS*PR DPLTSLASQSAHTGVSHRAWSPFLVLF *TESHVAQAGVQWIDLGSLOQAPLRF K*FSCSLPSSWDYRPPPLRFANFVFLV ETGFCHVQOAGLELLTSDLPALASQSV GITSVSHHTRPGMSFFITSHKL
4670	12721	A	5564	1	369	LQPOPQGLNQSSLLSLLSSWDYRHMPPY PANF*YFPETRCHVAQTGLELLSSDPP YSAQSAGITGVTHRA*PRFTLCTGLJRG QHGEKGLAQGHNVRASSIQGSVTWG LRGLFFPH
4671	12722	A	5565	161	231	

4672	12723	A	5566	1	1401	MQIPDYNSEITDPGIOQQEAAGLEGTRKP WNISMILLTRNISLCQFWSKCGPEPDTS SWGTPQKEHCHL VNKGVDLSLRMRGY MHGHQPLNLQFESOLMPOTLFPHNFQN CFFEELHKWRCPDYYENNVRKMQLPFS SKLLGSTLTSEKOEERROQQRLRLOELEN ARRREEKLQLDQEERLDRRLYVQEILLEDG QMDQFHKAIELNMDSPEELQSIVQKLSI AVGAG*AEENPSGSQPR/EWDVV/TASQ RPLTWEQLFPSELDVESMNDMPDFLPSSEE/ DTLEWRSRSP/RVQPVFNAYAHQOLPVG TERIRAPEIIJFOPSLIGEQAGIAETLQYIL DRYPKDKIQEMILVNQNVFLTGQNTMYPG MK5SRMEKELVIG'DPSRLSFKVNLASNP CAGM/DWYGGLVNWLNAHLDNEVWI TRKEYEEKGGEYLKEHCASNIYVPIRLP MSCLPLLRCPRHPSQGSAGGGGAG
4673	12724	A	5567	2	131	
4674	12725	C	5568	170	394	MKTNGYQGRVOWLTDVLNLKSRPVQOS SRPSLGNMVKPPS1QKLGKA WVACTCCP SYSGAGGGWHIERPSRLRQ*
4675	12726	A	5569	2	583	DRKGLESSPEPPSDCRPPGMDDLAIASP LLAPSPQPVQPSWPSPG*CGRQACPVLIES GHSAGAGVSSWDGPVPVPCPCHPGLSQ AHHGKTFPGKLNHMPVSGGAQAPGPHK ANQQSWPSCPPVPRSRPPTSHLAENPM RKSFQAOGSGAGNWQRKVSNPHWELQV FESPSRPCVKNGRAAGLVTGFGREC
4676	12727	A	557	584	827	FLYFLIFFETGSHSVTRLECGDTIMARC SLNFPGSSDPPASAWSVAGTAGVLYHT WLSFAFFRRDGVSRVARAGLQLLAW
4677	12728	A	5570	3	312	FFLNRQGLALLKLEYSGMIDHCKPOIS GAQVILPVSASWVARPTGVYHHA*LIFF KWGREVETESCVAQAQGLELLASSDPT STSQRWAUTGSHCAWPA
4678	12729	A	5571	1	121	IIFHLKNC07RSIYALALMFKNEGEIKMF SNJQKLKEFIFTDSK/LQEMLKNAL*AERI YY
4679	12730	A	5572	2	228	FETGSHS1FWAGQVWVNHSSLQPLRFLGL R*FSHLSLPSWSWDIRCTPPRCNSIFSRD GFSC* SGWSQTLGLK
4680	12731	A	5573	1	1896	MVSOGCRSREMRDADAHAGWDSPITALHM ARGLGLRVRFSAPRHTEGGTDPGNSHLSP NQKMEKLITEKGKQQLRQGGLCVRVSDR TVRSVOETTAITA1LGKSLGTYCGRGTRN LITAEGFMPHASVCIOSKSGKVARNTVQ GFTAHGKAVLEAAVSASGPAGTWGCLR IKWPRPSVSWLKPERAA1LVGHGCRKS GCPGGLGGSAKM/PRHQSAAPAGRGR PCWVGPEITSGSLSNQQWLPGVALHAPP SAFLLGPLLISLSTVDTGPGGSGREVEATT CGRRLKDKDSEHAGAGSRHIIOSQVTGS LGEERAVRAESPEGEGPAEFLRRIJOGAVQ TRAVTAGSSVEKINTLCTCDCDA3EEHEE VLGGDNVETEERSVCVPEPVKMTILEFEKR VFADHRCRCLARWAPAA1NRRDLVNTLIPG HPGSCSLVAFL/APSPSPRVPPAARCW ASDFFPERGKRLRPAHSSFPVPPACVVPVQ SQSGPLPCTPRHPLPFPAFAGICRGPR APGG/SKAVATQRPWVL/AGP1APEGGL PW/*VPGHNSKIPQPVSNLIEPNLAP QSSWAALGSKRLLQGQCSHGFASFTAD VCTNDDTLSNANSLTEVULATEKHHDINLA NEGLAWDRGWWDYQGKDMILSL

4681	12732	A	5574	1	475 FWKSPSPVQPRTEARAQGNKQKEFRET APGSSSKADTKSPHLLWALLPSRRWGOS QTQHPPLAREPQFLACGPWKDRLRDLADS TPLLNSPNS*KLPI*ICOSCPLQEKGQKA*D ARGVPSPPELQPQPSGLTAQQGTHRPHPD LRMTCGRTWHFFLAKTLH
4682	12733	A	5575	2	468 SRGILADPPRPGGQPDFFLQP*PTRVAALS GLSNQDTDLGHLMRQRQPQVPAQPEAEAT AASRITALPCAVNPWTVLRAITLPDLDClQ TEACOMKPSAVSKFLVPRQVVRPLPKV AVMAVSVSCLRTVLSLTTLTHSPCRSLC OPFSVSPSIFWFGDJK
4683	12734	B	5576	90	1686 XWWEPSPPQFQRDLSKVITGLQRAAFNP VAPTHSFKDQHJPMPSFCHFLLSGPVPSRT TLATIGRAAPHSPLKSLVQGYAPWQIS MSCDYQPPRQEHEKETSRRNSEKQLQAP AQRPPTKANTSGRSCLQEDLIPAEQAPGL SVPVCHCPCLLAARLAVAAAIRGLE VAEEALVCAQKLLAACSSHSLITVWSRG KVKEGLPSTVQAVSELLOVLLCKQKAG GCTPDQGPHTSKVLTTEASSLPRISRMCLL QPGPFSDNIPLGATLTPAATAATPTGILL PCTKHGNPLGHGLTCHYPLAPLPLPPAP HVRFAALSCLERSAGCCLCTFSRCRTTVG GSVGSCASELNHRACFSLPLMLGFQAPI ATHOWLFESVRNDKNTLDTPRSAGCDGA IHRPRQEAPDGPIVLLCLEMPMAPGSYPG GAPVSGHQRVHQWQVQWQHLGQSGGIR TGLGANCGKSHDSAYKKGGDVCFPGEM PVVVHQILKGVQHPNCKRGHWGLTVQQ KQPWTGSRGPTADQLHPKNSSLTLVFPSS R*
4684	12735	A	5577	171	1631 GLPQAGADSDPRTRPFLLGGLPGLPSPR PYPA*PAARCWWASDFPERGKRLRPAHISS FPVA/PPMRPRTVVRAPPHPSFPTSTV PSTGIRHLRAEGW*TGORRNPNSRRR LSPLVTPGSRSPTSQSPGSPGTIVEMPA RRWCAGATGPAGATSP/SSLVKETGLPST VQA VSELLQVLLCKQKAGGCTPDQGPB TSKVLTTEAS/SSAPHQNVLAAARSISDN IPLGTATLTPAATAATP/EASPLHLQAWQ P/STAMASAPAITWPWPHYCPCQLRMSGLLP CPA*NAPQAAAVSPPPAE*RLIAALWV VLRN*TIGPASHCH*CSASKPSPTNNGY SVSAMTRTPWILPDRALVMVLTGPQGSQ PQM/RPIVLLCLEMPMAPGSYPGAPV/S/ AA*AGTPPAGAVAASRAVGGHPRPG KLRQIP*FCIQEGWGRVSFNGKPCASD SQRGPAPKQVQGSLGDTGATEALDWE SGPHCRPAPP
4685	12736	A	5578	718	2209 IPSACFLVLLPSWVLVVAAHGSLPGRVA LDQAFQWTRVRGCSACKGCPAAG/PQ AQRGSGRSWAWDAGP*RSVWGPLG*TQ PAALL *P*VSPFVAGKGLAPTTVYGTAI QSILQGLLISWNPGGEPEG*RNLDGAGG RACCPDEDDOQIRGAVLAEV*TQCSSCP MPDAHHRRHRVVGVSAGAACPQWEL GGHGGNARPDAAGRVLRSRGTRNLIT AEGMPMHASCVIQSKSG/TSGTQHCPGV HCTWQSCLPSAPLLGPPPLSRTVTDTGEE GHPVDASWTPSTPREPGRWAHCLPQRK P/PLGPREAASVPAHSGTVAGEAP/PVIS HFR/SPAAFGICRGPRAGATEALPAPRA DAPVKAAB/PAHTGAAS/EPARHVRPPT ATAPFTPSAVHKGSGFSTSLSQTLVIFCC VLMVAIPMGRVWHLTIVLWTNLAVISR VPIVCALDLFSIVPCPLRCWCWWNRV SPKLAGSPGCSEDCLCGQMVRVMSSHFSV E

4686	12737	A	5579	2	354 LPSSWDYRPLJFVFLVETGFNMLARM VSIS*PLDPDDLASRSDEIIVSHRAWIL S**KGERKSTNVSHKEGLG*WSRATVLQ VVSVGFWEVPFGCPCQSOSYFHNNNTM LFAF
4687	12738	A	558	442	626 VEEGGSEAGWALRKICINGVSPKL/VLQL LHFPOIFNGSFVKLNKASVNTRIVEPYIT WST
4688	12739	A	5580	1	1263 MAEEQGRERDSVPKPSVLFHLDLGVGG AERLVLDAAALQARQGCSVKWTAHYD PGHCFAESRELPRVCAGDWLPRGLGWG GRGAACVAYRVMFLALYVLFALADEIF DVVCDQVSACIPVFRLLARRKKILFYC HFADLILLTKRDSFLKRLYRAPIDWIEEYT TGMADCLVNSQFTAAVFKETFKSLSHID PDVLYPSLNVTSPDSSCS*KAGMT*SPRG KNWLLSINRYEREGKJWLGTGKALV QLRGRLTSQDWERVHLJVAGGYDERVL ENVEHYQELKKMVQQSDLQGYVTFRLRS FSDKOKISLLHSCTCVLYTPSNEHFGIVP LEAMYMQCPVIAGNSSGGPESIDHSVTG FLCEPDVHFSEAJEKFIRESPLKATMGL AGRARVKEKFSPAEFTEQQLYRYVTKLLV
4689	12740	A	5581	200	705 LSQTL/TVLYPSLNVTSPDSSCS*KAGMT*SPRG VPKGKGFLLSINRYEREKKNLTALEAL VQLRGRLTSQDWERVHLJVAGGYDERVL LENVEHYQELKKMVQQSDLQGYVTFRLRS FSDKOKISLLHSCTCVLYTPSNEHFGIVP GIVPLRPCYMAVPQFICCLRVGPPIGSSI
4690	12741	A	5582	1	259 ERGSRSIARLEC/S/GAISAHCNFRPPGSSD SSPSACRVAGITGTRRHQPFLFVLFLEM GFHHVA*DGLKLL/NFMHLPQPPKVGLQ QV
4691	12742	A	5583	94	395 PIITYFEFLNGYIIISQKIKFSHHOLQKIDFL P*TWHFLFIEQR*NILMEQNQFSVTDVVK ILFGSKLYSHSKIOSMILL*LVTRE*CYMP NCNCLLSSFSLSVINDLQNP
4692	12743	A	5584	3	270 FFEAGSHSGCPGWSESAGAIAHCSLDLPG SSNPTSAS*IAGTRSMHHHAHLIFVFLVE TGSPYYVQPSLKLARVQALPPRPKVLG LQA
4693	12744	A	5585	13	775 YSVRGLVPAERRTPYPGSIVAPADGMVV ALEGMGMDPTAPQAOVRVYEPFRDCWLS LPSMPTPCYGASTFLHGKNIYVLGGRQG KLPVTAEFAEFDLEARTRWTRHPSLSRRA FAGCCAMAEGSVFSLGGLQQPGAPOLYIS RPHFVNTVEMFDLEHGSWT/IAPOPAHE G*EGQTWLGPLGATLWPLGALETSHVWL WALLEPSFLARRRWEALPAMPTARCS SLOQAGPRLFVIGGVAQGPSQAVEALCLR DGV
4694	12745	A	5586	1	936
4695	12746	A	5587	1	1023
4696	12747	A	5588	3	345 LNLLMYFRDNVSFCHPGWSTVM*S*LA AASN\$WAVT**SSCFSLPSSWD*S*LPPCP ANFFF/CQ**RQNLMISSRLVSNSL/QPQV MLLPQLKALGLYRVSHHASVKVFNVLI NM
4697	12748	A	5589	1	430 GDGVLLCRPG*STVALSQTIAASWWK RSSCLNLPSWDYRCAPPCKFCIFSRD GGFTMLARLVSNS*QMIIHPPWPPKVP LPACVWYFSMACNFLYTPSFFLRLFCQO PKMekaALCQGSPKTVKSCESQMFTFFN F
4698	12749	A	559	3	398

4699	12750	A	5590	3	389	GVSPCWPQGS*TPLK*STRLLGPPRCWD YRLLLEVDPCTGHSLYL*KDPVPLPLPAEG CDYQQKEYALSSCCDKSYLLPRTKF CCHPERGTWKLGVGGCYAPIQSFGIAD EQAWLQHGSAGAVYLC
4700	12751	A	5591	3	53	
4701	12752	A	5592	363	777	DMPQLCSVDNHRERADEFINIJYQHQFF FLRQLSITSAQAGVQWCSSLSSQPLPTIG FKPPSCLSLSSWDYRHMPPLSANFCIF SRDRGFTMLARLVLSS*P0/CDPPALASQ NAGITGMSSHAWPTITPSYLLNTQD
4702	12753	A	5593	3	85	FFFPLMLHNNVVVLVLHLFTISYKHFIIV LYKQQFKFTYVY/TICLVLVFQFQHILLES PPLKLHILL*SL
4703	12754	A	5594	1	281	FFAPETESYSVARLECGSTILVHCTLCL PGSSDSPASASQVAGTTGACHHTWLILVI LVEIGFHVVGQAGLG/IS*LQVIRPPWAP KVLGIG
4704	12755	A	5595	2	369	FFLRWCFAVLVAQAGVQWQDLGSLQPLP PGKFRFSCLSLPSS*DYRCPTRLANFAS/FV FLVEMGFHHVSQAGLELLTSGDLTLAS QSAGTTGSSRAWPDLYLFSYLIETTSPP KFSIPFHLEI
4705	12756	A	5596	432	1490	KKCGCKPGELCGCMPSSWKNAycopTAQ QTAQEYLSSPCGSAAPCLP/DRASSSSRS VEASSLDSAPGTSAAAGSPSPRPFGGEYH HPGPGANNEPTPAESIVVPSWP*GCHISS VAVEKLSLAPGPTPS/DLPLLDSSMMRKKA PIPVGFLSASSLLPKDARASETSSR*TH Q*FFGDVH*TQNSLAQSOLOHSSGPQLL WGKTGNQSQQFPQAG*HSRHKEGWRE PSHKXPLEPHSLSQHGTASSARIPEVPP HSLGHSPACAWRSSPRPPRPLAALPGC RRRRAGGSHKAPDRSTARPGNCGRRR GRRGARRCCCCGSRGPSHSOPQRSESAP PAGAHTRLQPLRHSLSH
4706	12757	A	5597	1	2163	MARMFSVIAACQLVLGLLMTSLTESSIQ NSECPQLCIEIRPWFPTQSTYREATTVD CNDLRLTRIPSNLSSDTQVLLLSQNNIIAK TVDELQLQFLNLTLEDPSQNNTNKEVGL ANLTLTILHEENQITEMTDTCYDOLDS NLQELYINHNQITISAHAFAGLKNLRL HLSNKLKVIDSRWFDSTPNLEILMIGEN PVIGILDMMNFKPPLANLRLSLVLAGMYLTDI PGNALVGLDSLESLSFYDNKLVKVPOLA LQKVPNLLKFLDLNKNPINKHQEGDFKNM LRLKELGINNMGELVSVDRYALDNLPTEL TKLEATNPKLSYIHLRAFRSPVALESIM LNNNAALNAIYQKTVESLPNREISHSPN LRCDCVIIHWINSNKTNIRPMELSMFCA MPPEYKGHQVKEVLIQDSSSEQCLPMISH DSFPNRNLNDIGTVFLDCRAMAEPEPEI YWVTPIGNKITVETLSDKYKLLSEGTLIEI SNQIUEDSGRYTCVAQNVQGADTRVATI KVNGTLLDGTQVLKIYVKQTESHSILVS WVKVSNVMTSNLKWSATMKIDNPHT YTARVPVDVHEYNLTHLQPSTDYEVCLT VSNIHQQTQKSCVCNVTTKNAAFAVDSD QETSTALAAVMGSMFAVISPAISUAVSF KRFRKKNYHIFIKKVLWQKTSISIPLNE LYPPPLI*PLGKVVDSEKDKGDSADTKPTQ VDTRSYYMW

4707	12758	A	5598	50	824	SLLKPYVVYRIFTKEKSYKCKEGKFHKS CSRHI*NHKIIHTGEKYKCEECGKVFNH C*OLIAQKKHIAEKNSDFKECGKAFFNNY YELTHQRFCAR*KOCKCNDFTHYIYLWK DVTVK*KP*STQGVMMIVHYICTWKDFKNI SLRVHKFSFYTEEKHYKVDCCNTITVYVT DFPVHRRITYTER*PSNSCSNFIPF*IIYIGK KPYNCNEYEKNCLKSTP*KTLV*GRARW LTLIIPAPWEAKAGGSRGQEIEITMKPCLY
4708	12759	A	5599	1	2043	
4709	12760	A	56	939	1603	GHSANWWLGPEENPALPTPELVSPPRGC RQSSRPSLRRRKEEKAK*KSPQPTILRPPP APPTGSLQAPKGARPPSPRPPPPRPA PNPURLPPIPSSPE/PGRSSCPAPPTRTPR VSQTHRPPPPSSAYEKKDAARAPATATGR APRPLGLRPKSWMPPEQEKEPPTDRSIDR TPVSPSYQTREGGRA/PRASSI*GPDSPAT RDQGSSGGPHRSYRFPGCVAR
4710	12761	A	560	1	960	IMATSATSPHAAPGFAEGRCGYVVEKK RCFRMIVAAKGKRCFGEHAGAMEEDA RKURCPPLDPKHTVYEDQLAKHLKKCNS REPKPKPDFYIQDINAQRLGETEIPQCLCL NSTLTDHIMSHPALHDALSDPINDSAT KHLKQQASNLGNIENLKLGLPGRRCFVEF GAGKGKGLSHWVDIALKDAEKVHIFILVE KVTTFRFKVDGKHRRKKNVSFERLQDIQH LCLNKIPVLREEKLKVVGIGKHLGMAT DLAFLRCVETYAAASFEEERNEPLAKRIK NDKTEKEITYLAKEGNENKVNPEKWNPV AGIVIALLCHHRCDW
4711	12762	A	5600	18	403	FCIFSGDGVPSCWPWSRIPDLR*SACLS LPSSWDYRKRPPRSPANFF*FLVKTFGH VQQAGLELLTSGDPASASLASAIGTVGSH CTRPMYAFLKOLQNFHIIKSDYRLYRKL YLKATTMVFRYAFL
4712	12763	A	5601	2	497	ETESHSTVTQAGVQWCDLGLSQLPPPPRLK RFSCLSLPSGWDRYHRVPPHLANVCIF**I WCFTMFARLWFNSRRTPSDLITSAS*SAG ITOVSHRAIRLCIFYFFVVAEMVRMSCF VTQVGEFVALSDLVLPWPPPKVVLGLQA* ANSASPVFYCNCSFHSHLNAPFN
4713	12764	A	5602	3	303	LSCFPQATFFFFIF*DRVLLCPGRSTVVQ SQLTAALTSRAQOSSCLSLPTKWDYRHRV PPYSAFFLFLVLDKSLALLPRLVLSNWAQ AIIPLPQPKVLRLLA
4714	12765	A	5603	122	525	OFFFFFEIGSLSLVAQOVAQWRSTSPLQPW SPGPF*FSHSLSLPESWEHRMPQGLDNFC BFVETGFRHV/AQASIKLGGSSDLALASQ SAGMTSMSHHAWPVIVKNFVCIYYPDIV LSMLSVKSINIHINHVRGLQ
4715	12766	A	5604	1	198	LTRGLSKCEEVSWRFDVQQLKDLKRWQ NHILLSSQQLACIVLTSAGIMDHKEMR*K HTGKSLGFFF
4716	12767	A	5605	156	1047	VPAGEARVQWHDLGSLQPPP/GSSDSP ASSRVAGITGKINTICKKCAQNVLQY TPPKCQYCNIIAIFIQNGKCORCTNSEKXY GPPYSCEQCKQQCAFDRKDDRKVVGDGK LLCWLCILSYKRVLQKTKRKHLS RAGHQEKEQYSRSLGGGHYNSQKTLS SIQNEIPKKSKFESITNGDSFSPDLAID SPGTDHFVIAQLKEEVATLKKMLHQKD QMILEKEKKITELKADFOYQESQMRK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKSEKSGAITS

4717	12768	A	5606	156	960	V PAGEAR VQWHDLGSLQPPPGSSDSP ASSSRVAGITGIFTNTICKKCAQNVLQYG TPKPCQYCNIIAFIGNPKCQRCTNSKEKKY GPPYSECEQCKQQCAFDRKDDRKWDVGK LLCWLCCTLSYKRVLQTKTEQRKHLSSS RAGHOEKEQYSRLSGGGHYNFSFSPDIAL DSPGTDHFVIAQLKEEVATLKKMLHQK DQMILEKEEKITELKAQDFQYQESQMRAK MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKSKEKGSAITSP
4718	12769	A	5607	1	354	ETEPSCQCAQGV* HDLGSRQPPLPQISS DSPASASRVA GATGMHH* SRDVLRJIREL EEGLELCPHFSVRNLPKTGQILTLMSLA PVKLAPOP KLSWMLTRHSRLWAALSG GGQV
4719	12770	A	5608	3	403	YIFS RDRVLP CPGWQS TPGLKQSARCL PKWCWDYRREPPPQLAED/SYFQPRASLKM TL*GIVSMV/PLLQKLWMCKAQGNQAE EGTGV ALP EASS WSCLLQLPFPVDEP CSFKRRESEKEPSNGP NLI
4720	12771	A	5609	340	1015	VGSVEEFQGQERSVILISTVRSSQSFVQL DLDFNLIQFLKNPKRKFNVAVTRAKALLII VGNPPLLCHDPDWKV* APPPHSPS*WP QPLPRAGGSFLSACLSLS*SSDVSIFTASL LYL*V^K*HPEVEEQVQLRWDRTV*A*PPVS AGHSSVPHRFLECPCKENGGYTGCFFPAK LDLQGQNLNLLQGL/WSKLSPSTSUVPHSH GLTS PREREGERGPVFCXWEPEWRNEL
4721	12772	A	561	111	349	SLSDSGCKAYVGDEYULPGPLDLHAQP SLIKEHEEEKMF TLKGNR LPAADVKNIIF FVRPRLELM DIIAEN VLSEDRRG
4722	12773	B	5610	769	809	GPIIIFHGVMGKDEREGNSPSPFNPEEAA TVTISYLKLLLA PSSKKGKARLIPRSVGV SPYRKQGA SEDLEDIKD FEGGFPSKKN SK AQERSVILISTVAKRPR ALLQLLDD*
4723	12774	A	5611	99	341	SEL GTVA H A T C N L I L P S S G D Y R R P S F L A N F*V L V E M G F H H V V Q S Q V E L L S S G D S L A L A S Q S P G I T G V S H R A Q V P P P F F F F F
4724	12775	A	5612	1	1795	MRSQHQLPVGLLFLSFPSQLCEICEVSE ENYIRLKPLLNNTMISQNSYNNRGTA SVNNVV LSLKLVGIOJOTLMQKMIQQIKYVNKSRL SDVSSGE L A L I I A L G V C R N A E B E N L I Y D Y HLIDKLENKFQAEIENMEA HNGTQPLTIN YQLSLDVLALCLFNGNYSTAEVVNHFPT ENKNNYYFGSOSVSDTGAMA V L A L T C V K KSLINGQIKADEGSLKNISIYTKSLVEKIL SEKALQENLIGNTFS TGEAMQPSGVLPJN GCSTTLLAVACSTGHRKCASRALENRCR SPA AKVTKNKR L SNC QTGQRKLRRCDN RMQCGVLDRLBEQKEDISGTISI EQI W VELHVS V WRLGVAMEMVQCOKAGY PERGDGVGAVAEGPNKIVQAGGLRELETR KTALPENESSQHIAFTITLQHLVQGLAH SGYSVLSKCLLNENRAMQKHGTWTTQQ IQSSAAEKSEKTMWSWDRLGRGT AHSWQ ACP VSLKKQAVEGAHQE EQCKR D E M R PGESDLVTMASGRD ALLCGRCCQQAKT EELITIVPRLGEQREAPLPCSTPPGSTPA AKVPRSAAPDGPSS * PGARRQV ARPR GQAPENK
4725	12776	A	5613	12	367	LGGASEATGASAAQPPPPPPAPRAPN PAP GPAP A QR * SALD PPLPGRAPRSFLKGPRP ATARPPG/WRLQSPL* PESPPDT RGVRG EA PA PAD PA A GP RKS KS D CLA AV IR CLC RA PR
4726	12777	C	5614	231	302	MNSFLVFFPLYYQMYMLRLNFCA*

4727	12778	A	5615	194	737	EGGV/CLSW/CWFGPVCCDVTPLPEPR DGCLC/PLPKMPPAPPMLPiQQSFPFQE RPGSPVPEASPPAGN*ISHLEGPNTNQ WSPGKWPWVCHL/*CGHVGVPLPKAP CPL/ECCPSGCVDSGAFFQKJHSPSGSPE TAAGPSHLNDNWQRQLGFYELLSGIFCRA PNKCIKYVSIFVLA
4728	12779	A	5616	2	360	PRVRDPRVRPRVRVRRRIYKPLTRDELDQ FLDKMDPDPY/WPAVDFDSGDVMIHPPV NRPADKRSRFSIPSLVEKEVKSRMGHAIKM GWIQPRRPRDPTPSFYDLWAQEDPNAVL GRKHMHIVPA
4729	12780	A	5617	1	2072	DSSGDSSEODDDEGDEEGEDGALDDEGH GIKKITTEBQVQASTPCPRTEMASARI DEYAEDSSDEEDIRNTVGNVPLEYDDFFH VGYDLDGRRIYKPLRTDDELDQFLDKM DDPDYWRTVQDPMGTRDRDLRLTDEQVAL VRLRQSGOFQDVGFNPYEPAVDFFSGDV MHPVNTNRPADKRSRFSIPSLVEKEVKSRM VHIAKMGWVQPRRPRDPTPSFYDLWAQE DPNAVGLRHKMHIVPAKLALPGHAESY NPPFEYLSEEERLAWEQQEPSSERKLSF LPRKFPSLRAVPAYGRFIQERFERCLLDLY LCPRQRKMRVNVDPEDELIPKLPRLPRDRLQ PPFTCQALVYRGHSIDLVRCLSVPGGQW LVSGSDDGSLRLWEVATARCVRTVPG GVKSVAWNPSAACLVAAAVEDSVLL LNPAQGDLRVLAVGASTDQQLSAFVPPPEEPP QPARWLEASSEERQVGLRLRICHGKPV QTVWHORGDywPLVLAPERGHTGVLIH QLSRURQSOPPFCTHV*VHRVAFSPARF LLVGFQRSVRLVHHLRQELTKKLMP NCKWVQCPGGCNPAGDNVICGSYDSK LWVFDLDSLTKPYRMLRNH/HRRALLA VAFHPRYPLFASGSDDGRVIVCHGMVY NDLLQNPLLVPVKVLKGHVLTLDLGLV DVFHPTQFWVFFSGADGTWRFLT
4730	12781	A	5618	1	214	ODSALLOLL*IIYPVYNLSPAGGGRLDLF SCLLRHRLKLPTSEBVVRTQSAQAFKGPN NAQTQWIYGHDPN
4731	12782	B	5619	58	280	IHCASIKDIEKDQAVMEETAILSTENKS EFLLTDYFEEDPNSAMDERRKSLLKPK LLRQLRDIEKASKDKEX*
4732	12783	A	562	223	747	CIGKVYVWLGGVGWLQKSWGTPLFSPH PPGRPRPSFAKGHSPPQGILGVGLGENRI LVIIFNLITYCTYLGGQLGEVEGGEGGSPS APPTPFLRRFVCVGPHPLIPHCCLDVVL FFYRSPFPSSPSFSPPIPHPLLPFVSCSFLG FCTTQLVYTIVYTQPAKRKPNGKHFKKK KK
4733	12784	A	5620	2	785	HFNMRDPLTDPCYNKVKYKNLKEFSQNG ENFCKQVTSVLQQRANLBRKAQGLQKL ASKLSKALQNTRKSCVSSAWAWESEG KSTADLHQKLKGKAIELEAKPQYVLNV QEKKRKSLDNEVEKTANLVISNWNOQK AKKKLMVSTQET*STPSSL*ESS/ARQSM TEKEKRKLLNLKTSTEKLEDEDENYYQ KMMAGYSTRLKWENTLENCYQSI/ESW RRKEFNFYAITLNQYSQHISLFQTLITC HTADSLCHQD
4734	12785	B	5621	13	543	MFLAPIAVSVRFFXVKASVYAYTMFFS TFYHACDQPGEAVLCLILSYDTLQYCDFL GSGAAIWTILCMARLKTVLKAYARCG HRCOCYPTLWQWFAYLLPGVFMASLL IAITYSMMTSIDNYYTHSIWHILLAGSA ALLLPPPDQPAEPWACSQKFPCHYQICK NDREELYAVT*

4735	12786	A	5622	1	1798	MLCFYAGSCRHFRSGAPPVNPGLTSFPD DIAQPSFQVGPVLSTIPRSNASVNVSHP PAPGDWFVAAHLPSSQKIELKGJALPTC AYVFQPELLVTRVVEISIMEPDVPLPOTL LSHPSYLVFVFDVTTEELLERLDCVCN CSLGCPVRLTVGPVTLPSNFQKVLTCTG APWPCRLLPLSPWPDRWLQVTAESLVGP LGTVAFAVAALTACRPRSVTVQPLLOS SQNOSFNASSGLLSPSPDHQDLGRSGRV DRSPFCLTNYPVTRBDMVVSVHFQPLD RVSVRCSDTSPSVMRLRLKPGMDSGGS LTSLRANKTEMNRNIVVACVNACLAL PLAIIISLNCTTAAFOGYPLSLA/GSRRA NLJIPYPTEDNWYIISLQLMCPENAEDEC QAVGPSPWEDHLCTWGALFTDCGPYQQ CSLRRHSYLYASCSCAKAGWRGWSCTD NSTAQTVQAQRAATLLLTLNSLMF/LGP PPSSVRRFFFLVEASVYAYTMFSTGCG VGGODRAHGASPQFYHACDQPGAEAVLC ILSYDILQYCDPLGSGAAIJWVTLCMAR LKTVLKYVLLGTLVIAMSLQLEPQGH VEHLGGPASLFS
4736	12787	A	5623	121	291	AFCPKKYELTTINFKNFQLGVVTHACNPSI LGGRRGRIT*AQEANLNAMKPCPLNK
4737	12788	A	5624	571	690	CQOGFSLQAOYGAQHAISMRKFKAKY PDYEVTWANDGY
4738	12789	A	5625	130	943	
4739	12790	A	5626	45	473	GIPGRNNMAVADLALIPDVIDSHGVFK VYLIPSPGLPAPGIRPAESKEIYRGYKW AIGHHADYIDKSVGATCRKQGLRTVSV WTAGPHLPTKSPGQERFT*YGF*FGPMV LPKNANFNLRKSKAKYPRLTERVTLGLNR PAT
4740	12791	A	5627	3	348	TIRLTHLHTDHQHSHSYTHTEHTPHT PHTETQTH*YTIALQ/PLRSHLFLRQSRP QNGNAPLCEFSHSPSDVLQLTLLHLSVV VKIPSTSLLMCRSSGGAQCRESLDQHIEG VGF
4741	12792	A	5628	3	331	FFEMESPSSV/SQAGV*GPNLGLSLQPPPQ FKOFFCCLSPLSSWDYRRTTPCPANFWF* KDGVSPSW*WSQSLSDLGLFKFTYFFKET LILCTQSSTTTTTRTRSSHR
4742	12793	A	5629	3	336	SHSVAQAGVQWHNGLSLQPPPFAK*FS CLSLSPN*YYRRP/PHPADP*FLVETGFS HVGRAGLKLTTSEPPACASQAGITSVS PPCRAHTEFLPLCPFLFWPLFCP
4743	12794	C	563	238	267	MQINSQMER*
4744	12795	A	5630	1	267	EMESCSVTIRLECSGAILAHCNLCLLGGSS DSPASAS*VAGITGMCHYTRPTFLFELVE MGFCHVQAGLELLTQTQVIRPPRPKVVLG LQA
4745	12796	A	5631	3	521	FSFFFFFAFKMSNRGRGGSSL*GRKFPDF PLGPSPGRLL*SNWCLINTRSPKTLHYHLP *RGNQGDRLDQTSPQVLLGVGIDMVMAHIS/ VKKGKPELRKK/VHPSSGSFRQPKVHYP* EKMGVFLFEEG*LQGVIVEPFKGRDGK VSCHLPGTQLGKGSFADFVAPGICIPMP WQPLH
4746	12797	A	5632	3	216	DRSHSFTQAGV/QWCDLSSLPLPPPGLK *FLCLSPFLSSWDY*GAPPHTNPFYIFIRDG VSPYCPGW*TPSLG
4747	12798	A	5633	1	412	IIRSKN*YIEINPTKHTKTFSKTLTKEMK EDLN*WQEIPCSWIGSVSIKMSVLSKL IHTIEQCNRNKYQPQIGLLLPLFLLDR LVLKFTWKGTGPRMAKAILRKS/SEDLT LTYINTYKKATVIKLVGAKPD

4748	12799	A	5634	276	2588	NKHFSFQTPKKSHQKSLFSKTTTPRRIH TPQTPLYTPERLOQSPAKMTPTKQAAFK ESLKCDSSSPGHDSPLDISKTPQKRHTQAG EGTSLETKTPRTKROGTOPPGFLPNCT WPHSVNSPESPSCPAAPTSSAOPRREC LPIRDPLKTPRAAEEFMGIPONOTHQQ PHVLRARAEEPAQQLDKAIKTPKRP NSTVTSSPVTPKKI.FTSPLCDVSKKSPF RKSKIECPSPGELDQKEPQMSPVAASLS CPVSTPPPELSQRATLDTVPPPPSKVGK RCKRTSDP/MKEAS/SECQLDASATPGVG TADSPAAPTDSRDOKGSLSPQSPPER GYPGFLRSWHASSPLLTSDTEHTLL SEAEHHIGIDKLNSNVLSVVEEIGGLRTAD AEKSSSLHSPGIPSPSCPGPSPLMPSRDV HCTTDGRQCQA5ALDNLNPLASWAHSTD SASPOTYVELEM0A5GLPKLRIKKIDPS SSLEAEPPLKEESSLGEESF1PALSMPRAS RSLSKPEPTVSPICPRLSHSTPGK1TGK PTSARPVPPT/SFSSTPSPFQTDGVWPWT SPKHSGKTTPDIIKUTGPGRGRGWAVAPA PLPGGARSVQPSWEPEVA*VRGQGPRI* TQHPQDAHLGGF*ARGSPAPRVAQSQE /ACLRPRKPLPGDSLGVPGRESCWRK KLTVEPKGSVT*EKIOKLVRVKRGLOQV VHGSPYPRETKRC1FPAPPHLPAVPCAG SPASALQALTOSPLLFQGKTPSSQSKDPR ILNHFFLECSVQAQAVQWHNLSLQPP PPGFK*FSYLSFLSS*DYKHAPPRPANFCI FSRDAWSPMLASWSQTPLK
4749	12800	A	5635	29	268	
4750	12801	A	5636	2	118	
4751	12802	A	5637	1	262	ETDLALSARLECSGNTILAHRK1RLPGSR HSPASASOVGGTTGARTTPG*FVEV1.VET GHHRVSQDGLDLL/NLVHPPWPPKVLGL QA
4752	12803	A	5638	3	309	IDTTFFFFFFFETESLSTVTRLECSGAIL AHYKLRPLPGSRISPAASRVAAGTGAHR HARLIF/VYFLVEMGFHVSQDGLDLITS *SGPRPPKSLGLQA
4753	12804	B	5639	49	754	MAGRAAPLWWSRPHGCGWHPWPMOPLQ GPGRRAVAAAWEVATPVFMPVGTQAT MKASRPNSTWLWVAASAWEYLPGSK AGGTAAFPDGVAVGVSVRGDGGGLRFERS PYDGETNLLSPENPCSRMRWVAPGVVIT GALLOVNPLAGPVIAHAHQRPDKQNLFA HQVGWTQISGPPLKRGSAWHSRAFLT HCCTVTRPRCTTSRQHAPAEIAMSVA R15IVEKRFPDSCGTSWAPX
4754	12805	A	564	549	848	LFFPSQSQTKVFTSYEQIMCVCVFLLFCF FVFPETGSHSVTRLGCSGVIMAHCSFNL PGPSDPSTSASQVAGTTGVCHHAQLIKF FVEPGOHTIEIPS
4755	12806	A	5640	3	906	TVKMAAGAAQASLESAPRIMRLVAECSR SRARAGELWLP1IGTVATPVFMPVGTQOA TMKGITFEPLDALCGRICLQNTYHHLGLR PGFELIQKANGLIGFMNWPHNLLTDSG GFOMVSLVSLSEVTEEGVFRSPYDNGE TLLSPKSVQIQQNALGSDUIMQLDDVVSS TVTGPREEAMYRIRSWLDRCIAAHQRP DKQNI.FAIQFGGLDADL.RATCLEEMTKR DVPGFAIQLSGGEKSQFWRMVALSTS RLPKDKPRYLMGVGYVVDREARALPVG SGFLGTPYPAWGGGIWKGRTQV

4756	12807A	5641	379	677	EGLRP/ELONLFAUOOGGLDADILRATWP* RDDQARNVPGFIRGALSGE*FQSREF/C AGWLAEEHTLG*PKDKPRYLMGVGYAT DLVVCVALGCDMFDCFPFTARFGSA LVPTEQLQRKVKFEKDFGPPIRGCTTFP HVPKAAPARAFLHATAAQ*QHGPRCTTILT VHNIAYQLQLMSAVRTSIVEKRFPDFVR DFMGPMDYGDPTLCPTWATDALASVGIT LG
4757	12808A	5642	2	335	AGVQWPDLSSLQPLPPGFKRRFFHLGLPSS WDY/RVHEAPRANFLFKLVEAMFCHV GQAGLELLGGSSDTPVLAFOQSGITGESILHA WPVFNF*NGSFNVFSLRVINEHLALHL
4758	12809A	5643	56	571	YYQNPKKKLAAASCGLSVLQLVLSLSKKG EVLPGETQHYFLPNRELRLLTQHFLLL MPLSQ/TQSKAGTHIARLIDPDYQGRTKT KIRNGKKILNGRRKEIAWNVGFST/PCLL WKVIGILEQSNNMAIYWIHPRMKV*ASP PGKEQRPFETPEGGQRNMEWLEEERNG RCLP
4759	12810A	5644	2	1085	
4760	12811A	5645	387	533	RWSDY/VERYMNSDTTSPLEREHLA/QKP VFLPQGE*:AMSCICQQVHTVHD
4761	12812A	5646	1	169	VFLVETGFRULLARLALNS*PCDPPASAS QSVIDTGESHICARPGLTLMKHRGQLCT
4762	12813A	5647	2	369	FLRWSFTLVQAQAGI/QWCVGSSLQPLPPG FKQFFCLSLPSSWDYRCPPCPNF*LLV EMGFHHVQQALEGILLTSQDLPASASQSA GITGISHRARPGTLFF*AVNGGGNQVLF LRVLNGL
4763	12814A	5648	1	340	FRQGSC*CPPADSRLLPATPEAVLSLVK ASPPPELRSPPEKPTGLSGGALG*QRFSSR AARNRGDPLTRKNNSKITSLLSFLQELTKA LEQKPDADAHILSSKSLSHSSWELL
4764	12815A	5649	2	660	RPPPAAPGPQGPWPQGPYP*AESPPIARS RTPHASOLPRCGRPRTADPSSAPSRRLLRP TSRSRHCFAAGS/PGTPPOPPSADVRV PPFSPLSSRWWP*PPQSC*RPADSRSSR PPLRPSFRL*KPARPOSSSSVASREAKGPL VERQVDVSFLAGPRETASSFATRPCATLP GKVTANCKPPQKTSQQLVRLQGLRSRVA AYSSPFGGAPEIEGEJEMPI
4765	12816A	565	178	375	ANFIAGVWSQSRFHALALHIIQGGSKKV P*ANFIAGVWSQSRFHALALHIIQGGSKK VPVISKLENDTAARIHELPIAEWRKQCSE KKAQAKGWROW
4766	12817C	5650	19	153	MKMTISNFLFSSQIFSSSTFQIHLDVPLEL QTQNTVMGCLMRJIIP*
4767	12818A	5651	2	306	ETKSCSVA*AGVQRNRHGS*RQPPGISS NPPIASRVRFG/TGICHRTHLIFLFFVETG SHYVAQGSS*TPEAQVIRLHQPPKL/VFF YIFQLFLCFLLVCY
4768	12819A	5652	2	760	FFFFFWSENDGHLDGTGARFAPDRRHGTGV GRKTDTQVGYRCTHATPARARGWGWEID GCLAS*PGRVKSRSWSPCAPGRGGQC HNPSSGFT*PGRHRKQPRPGARVLQAG GQQQAFPLLAGWHLSGPGYWLSTPWAC KGLGVVLSVTPLPRSPWVG GLGSRQ AVEGRAAOGRYLSFCPGTQW*WPPSAPI PTGT*SEVAHTKGVPGPGEPPAARGLRT LTLAVGPGLPGSLRVQHPKRYRALQALT SCFCSA
4769	12820A	5653	1	834	

4770	12821	A	5654	674	1268	PRDLPLASASQSAGITGVSHRLRFYFDHQ DVAPECGAYFFHELAKERKGV*+NTL LAKMVSIS*PRDLPLASASQSAGITGVSHR LRFYFDHQDVAPECGAYFFHELAKER KGVRLLKMQNQRGGPAVFQDILKPGQ DEWGTTLEAMAEAMAPGKLNQSLLLD LHALGSAPTDPHLCDFLESHFDRDEEVTF MPRKSAIDLHAAGEAASLGGVSLNVMK GASLHALCRLLINSFOFGVATLCGERVV HKNNRASALRKCFWP
4771	12822	A	5655	2	612	RYDFFFFFFFFFFFEVSRSQ*LOSQAGVQ LRDLGLSQAPPKFTPFSCPAPSPSSWDYR RPPPRPANFFLYFY5/MRRGFTVLARMVS ISPRHLPALASQRAGITGTLSHCTRFFF* WMESPVTQAGIQWHDLGLSQPMPPQF R*FSWLSLPSSWDYRRPPRPADEFCTTSR DGVSPC*PWSRSPDLVIHPPWPPPKVLG LQA
4772	12823	A	5656	140	261	RAEPHPLANHILF*DRVSCLCRPGWTAM ATWLTAVASTSKAQAVLPPSASPNS*DY RHVSPHPLIVFVFLIMLSRMVSVNSWAQ GILLPWSPKVLEIQA
4773	12824	A	5657	79	358	AGVKWGDGLSL/QPPPRFKRFSCLSLPS SWGYRHAPP/*PG*FSVFLVKTGFLHVQO AGLELLTSGDLPVSAQSAGITGMSHCA WPTKALISK
4774	12825	A	5658	2	350	SQVDR*QSEPESiRICREDHMERLQAFDA NSRKQEAEWKAKEAIKELEWWYARQDEQ LQKTKANNRVADEAFYKQPFADVIGYYV EEAVVNIDIDESPGTEWERVARLCDNP KSLD
4775	12826	A	5659	3	752	HRCGVGGSVGFCLTVGVRAVQLPAMAE LDPPGAGAPGGFALGNNGVAGAEED PAAFLAQSESEA GIENDEAFAILDDGA PGPOPHGEPGGPDADVGVNMGEYY\QE SNGPHTDSYAAISQVDRDLQSEPESiRKWR EQMERLEADANSRKQEAEWKAKE LEEWYARODEOLQNTKANNRVADEAF YKQPFADVIGYYVAKLIPFSTSDFSYFC LELMALLCHKLLCFLNYFKLALWGLPKN
4776	12827	A	566	656	874	
4777	12828	A	5660	1	348	NSLGESANALGNQ\QPIQTQNVCPRLEMQ APGMAPSPSFIMNTLERKAFLKRFP\WM SAPIQVGLVGFCLVFATP\UCCALFPQKS SMSVTSLEAELQA*DPKRAHPELRRVY FNKGL
4778	12829	A	5661	3	430	LRSQH\DSVAQAGHVWRDLGSR*APPG FTPSSCLSLPSSWDYWHPPRPAVFLY* ERRGFTVLARMVSIS*RRDPPASAPQSAG IIJM\SHARPQILFFIIIFSTVSAGINES*V CFYCHILEVPSEKGILES*CISEAAH
4779	12830	A	5662	3	756	GAISAHNLRFGLSSDPSASQEHWGT ETLAH*RSQLTATSA\$AWVQVILLPOPPKN TGAAQKHWPTEAKEHECVSDDEESTLK AGGQJIRIKQGGNSSSGAREPAPNLNSR RSWWTLVAKAAAATVIIIRVILMAAIIJRG TLAKEVNW\WVLDLTDFKNEAADPRAR HKDSPSPHQTQEPEWLHSVDPTPGPQVE LPASPTMCAGTSQPLVSRWDWSPWSRK RHHIAFPSSHNKYAGESFPGIYDAIFDIEN KANSRIAWKEVKHHISIAFTIQAAGT LKEVL

4780	12831	A	5663	2	773	LANFCIFS RDGVSP*W SGWSRTPDLR*ST RVGLPKC*D YRREPPHPGPLL PVFSSHPA FGFLQRRRLFVCFAFLRQLSALV TQA GVQ(WHDLGSLQP PPGGFK*FCSLSLLSG WNYRCVPPRQANFCIF/M*RRDTMLAR LVSN*PQ/CDPTTSASQSAGITGVSH/A RLAFVS/CYTHHTHTHTL A*IPPSVFP NSLSPPLQQGFCPHICTELTSYLIKINTPV HVRPNNGHSALCILVQVSAPLHSWLSPLE
4781	12832	A	5664	2	415	LDPGSLAGFTSYIQFMYDEFVEEYEPKT ADSYRKK/VAQDGEEVQYIINTAGQEDY TAIKDNYFHCVCFSITEMESFAATDFKKEQ /LRSKKDENIPFLLVGNGKS DLEDKRQVSI FEAKNRAD*WNVLYVETSPKT*AN
4782	12833	B	5665	151	1312	MMGGRLTGGIPGEAAVGCSRSTAP SVPPPPAAAAAAAVSSGNLRLHPGQV PRVVLSEREGGLAPRRCPSKSGSESTR VPRAGPRGESTGDRDAPPGPGPSSHHF SPLRIERKADKPPENS GESSHDVASREQP LVLLEAHFRWAILLACHSMPTVGRKOV NNIEKTEIKKFFETSENKDTTYONLWDT AKISFFPDFSYNFFMPISVL DAGGGSETA KHIIQDVHEI QPHIPEPQISLGSPHEPIFGS CTIKEGYRKRVVL DGEEVQIGILETAGQ EDY AAI RDNYF RSREGPLCVFSITEMESF AATADFREQILRKEDENVPFLLVGNGKS DLEDKRPVSVKEAKNRADQWNVNYYVE TSAKTOLMLTRHKPGTSSOSX*
4783	12834	A	5666	3	955	LLLLL LLLL LLOPPRPLRHPSDSSFD RSR RGAFAQTRTEYPPPGATQPRPLPEPSGRR TGSCKFFLII.WRKLRLHKAANKPKGQ NSLAHLKVIMGGSGGVGKSA TLQFMY DEPV EYPTKADSYRKVVL DGEEVQI DILD TAGQEDY AAI RDNYF RSSEGFLCV FSITEMESFAATADFREQILRKEDENVP FLLVGNGKS DLEDKRQVSVEEAKNRAEQ WVN VNVYVETSAKTRANV/KEWPFLKTR WWTCKYISSHCPRAPVSRKTAHWA VF DLMREIRARKM ED SKEKNGKKR SLAKRIRERCIL
4784	12835	A	5667	1	635	MAANKPKGQNSLALHKVIMVGSGGVG KSALTLQOFMYDEFVED*EPKADSSRR RUVLDGEEVQIGYPLDTAGQEDYAAI RDNYF RSSEGFLCVFSITEMESFAATAE FREQILRKEDENVPFLLVGNGKS DLED RQVFSKRQKRNRAEQWVN VNVYVETS TRANV DKVFFDLMREIRARKM ED IYYYL NGTKNTKRLAERIRFEGCIL
4785	12836	A	5668	2	178	WGFTMLARLVLNS*SQVIHPPWLPKV LG LQALGSGSLHRSFFISVKGSSGFTAPSRR L
4786	12837	A	5669	208	339	RQRLPVSRKWLLGTEEAWLR*STRLS LPKWDYRHEPPCPAH
4787	12838	A	567	718	971	
4788	12839	A	5670	73	269	DKIFFFFF*DRVSLCLRP GWSVARSRLTA TSASQFKQFCSLCSRSPSSW DYRJHVPRPA NFCIFSRDR/SFTMLVRLVLNS*PQVHLP RPPKVLGLQA
4789	12840	A	5671	1	586	KPYECKECKGKA FSSGSNFTQHQRIHTG EKPYECKECKGNAFSQS QSQLJKHQRIHTGE KPYECKECKA FRSGSDLT RJHQRIHTGE KPYECKICGKAYQS QSSQLISHRHIHTSEK PYEYREC GKNF NYDPO LIQHQHNLWY**N RIYEMCREAFNYGSKQNLSC*FL*IE*C/ SKHFICGLQLI QPGKNNVGEI LY

4790	12841	A	5672	2	355	LFISLFFSFFFFFFETGPHSVAQAVVQWL NHGSIQPQLSGPKQSFRLLRSQ*DYRC TPIRLASPF*FVVEMCHYVAQAGLQLL DSDGLPASASQRAGITDVSPCIWPPMSC YVKRT
4791	12842	A	5673	921	1086	TOPWYRHGGGGPKTLRQRSWSPCQAYH VPHACPSHHKNLSSRPWPCHPNATNML LSLKALQPPTILSPLP*QVCROGKNPDKQ RCRGPGATHIPVHLWHSGWPLLHTLPA RISAQVPSFPFPKETLGQAELQNRRWPL GPQKQVLRERPLSHQREKREAQITPRILL ARRPQAGEAAARRRQGKTAEGERG**D GPSKPSLVRARVRKRAKGPKQQPSASA*P GPSTPNPPTTQGSHWPREQAPAPTMS EEPNVLSQQTARP/RSPOTGM/GVGVLK PFVSPVGALAKLTMCPCMHLHITKTCPA AQHGIVIIRMPQTCC
4792	12843	A	5674	2	70	
4793	12844	A	5675	2	118	
4794	12845	A	5676	446	756	ISFFLSSFLSFFFFFFEAESRSFTQIGVCSGTI SAHCKLCLPGSHSPASAS*VAGTTGAR HHTRLIFLYI**KTGFHRFSRDGLDLL/NL VIRPPRFPKVLGLQA
4795	12846	A	5677	2	276	LRLWSFLSLVVQAGVQWCDLGSLQPPPSGF K*LCSLSPSSWDYRSAPPANFPVFVFLVE TGFLHVQQAICLELLTSSDLSTSASIQSAG ITREQ
4796	12847	A	5678	60	235	VRVLQIYHSRLPGSHHPPRGDRLQGRG FLTACQPC*STYC*TFPPGVLGNTGRDL L
4797	12848	A	5679	1	2059	MSSQEVTFEQRFEGDEGGAVELSRQQTQ QERRRQLGOTQLMYKWAKPKICSEDEL GAVKLPAASGVKTHCPCNCNGFIFTNST COPCPYGSYSNGSDCTRCAGTEPAVG ETYKWNTLPTNMG/TRPFVGSTSSTR/C MTGWEVAGDHITYTAAGASDNDFMILT VVPGRFPQQSVMAVDTENKEVARJTFVE TLCVSNELYPMVGVNSSTNTPVETWK GSKGRQAYTYIIIEENTTISYTCAFORTT HEASRKYTNDAAEIYSIIHCPCY*MPWAS YAGPCAQKASEEGSSCTSCPAGYYIDRD SGTCISCPNTILKAHQPYGVQACVPCG PGTKNNKIHSCLCYNDCTFSRNTPTFNF YNFSALANTVTLAGGPSTSKGLKYFH FTLSCGNQGRKMSVCTDNVTDLRIFPEG ESGFSKSITAYVQCQAVIPPEVTGYKAGV SSQPVSLADRILGVTTDMTLDGITPAEL FHLESLGIPDVIFYFYSNDVTQCSSGRST TIRVRCSPPQTVPGSLLPGTCSDDGTCGD CNFHFLWESAAAACPLCSVADYHAIVSSC VAGIQKTTTYYWRPEPKLCGGISLPEORV TICKTIDFWLKVGISAGTCATAALLTVLTC YFWKKNQKLEYKYSKLVMNATLKDCD LPAADTCAMEGEDVEDDLILTSKKSLLG EDQIYLQEDS
4798	12849	A	568	480	683	
4799	12850	A	5680	1	1098	
4800	12851	A	5681	143	571	
4801	12852	A	5682	3	355	FEIGSCSITQAGVQRHD\LCSPLOPPPGFK QSPRPLSPSS*DHRCAPPCPASFCIF**RQ GPHHVQAGIELLLTSGDPPLASQSAGI TGVSHQAWPFFGFLDRTLSIVSQKTNTN RP
4802	12853	A	5683	1	2472	RYDLALWPRLECSGAITARCNLKLLGSS NSPSTSIC/C*GYRLIFFKFVDTGSCYY AQAGFKLPASSDPPPFPKMLR\YRP/GHHA R/LCI.TVNRNTNPV

4803	I2854	A	5684	5	298	TGSRSRVAQAGVO*H/DYQGSLOPPPPRP M*SSHLSLPRNWHDYSHTAPHPAKLF DTGSHYVAQAGKLKGSSDPTSAQSQA GITGMHSRIOPHISF
4804	I2855	A	5685	9	320	FYLF/RDGVLLCCPGQSAVAFRLRTVT T/L*SPDGELLTL*STRGLLLKWWWDYKG EPPRPVFLFCFLNV**RCSLAMLSRLVLN S*AQAJFLPQPSKVVLQGQ
4805	I2856	A	5686	2	438	FFFFSRLENFFYNKPFCTNPGRGPPR VGCPAPRRAFGSLPOGGPF*\$LLFSRPN P/SGPLVRPLGPPTGALPCSVR*VDRSPLP YMFSPGPGGLRGGAAGPGPVHPRGPEAP PRARGRGREGGPAESVTRFPWQLRGHH FQP
4806	I2857	A	5687	243	377	
4807	I2858	A	5688	1	867	
4808	I2859	A	5689	1	874	TVLAFAADGCGVLAHGRSRSYGRLGRGP YSREPGLWSRGPGFTMSDEEARQSGSS QAGAVTVSDVQELMRKKEEIAQUKAN YDVLQESKGIGMNEPLDCEGYPRSDV DLYQVRTARHNUICLQNDHKAVMKQVE EALHOHLARDMEKQARDMAEAHKAEA MSRKLGQSESQGPRAFAVNLSPGSP ASIAGLQVDDWEIVGVSGSVNTQNQFQLSH NIGSVVQHS/EGGPGBTTHPTCFLYEFDYS RDLI*KPLNVTVIRREGEKHQLRLVPTRW AGKGLLGNCNIPLQR
4809	I2860	A	569	811	1481	GNGILLMVHHICDAGTVIMRADRFIPIGE DQKNRVLVNTVLRVISRAVDGKHLASI RHITVFRICHNACTQHTRGLFRGPNVFGEF LRFAYJLIVKENADQCAGFVGIIHEGID RMVQALPDVEQAVTHACVNQAAATGG DARQLVGVLVSQSQGFNINGNRHLTIN PVGIPADK*GPMLPMLPRVSGRNQHRS/R VYLPCATTLLRPNGPPSSVRRR
4810	I2861	A	5690	30	512	TPVRDMAEAHKEA/MSRKLGQSESQGP RAFKAMNSIEPRLPOPSIA/GLQVDDIVE FGSVN/TPODFOSLQ/NNGNVNQHSEKG PPECQ*SARGEKHQLKLVPKNAQGPK GULLGCNIIPSAKDELSPRGNSKQEKHPS PTPTWVLGDPPTCPSSPLKA
4811	I2862	A	5691	945	1358	KXQNITYTVHGFSCLGRGKGGQDRDGW ESRDGRFLSRLSTPQFAIJRLVGQKEFS MLPKSFTLQILPRGSLSLPDPQEQQLSKS* MPHRAVQSPSRSHALGNPKTAREGSAPRS PLTGRPRPPVAAG*CRACKRGAPOVAPP QGDQHRGRFRGAHSIDWRVWRGWASPSL LPRSSSSGIANQASPVPESPGERS/RAL GGRGSSSPCRP/PKPKPWRAAGS+ST WWRWLWLAGWRTRRPRAPGCARPARPGPP SWPSRPQTGLAAGLSGAPSVPSCRRCTP RRSRPPLPARWTPGAPACRRRPWS* GSTTAA
4812	I2863	A	5692	3	316	FFFPLRQL/DSVAQAGAQGHNPGLQ PPRFTPESRSLSPSSWDHRRPPPCTNFS APVETGFTVLAHMVIS*PCDLLTSASQ SACTTGTSHARP/IFK
4813	I2864	A	5693	2	769	LAIYKHAGGVFSFILLQTLNTYGPQGQDT KGSQLAYWRLPLGLCHIYLVKQSAKDFFS YYDINROSVSKLQNVEOLPP*DEIKELRQ INTMPAGVDKSSTDQKYVQAGRRLGKVI QQSLRNCFLPLVSYIIEFCLFLWRHLEYY LHLHCMPTDQSQKSLFASRVTLF*KQKDQ GPSPQETOS*DF*KVGLAYESEAHGF*T QLSGLMPINGFLENHYPKRNFLDIEGL/YI SKVRFFGYSPIQALVRIRGLLISRNN

4814	12865	A	5694	189	424	TLPISIYQSSPSGFHNYQFLASGVGATLPI TPHPTS/ELPYRVPSPSPSPRPPS*FSRTF QPPV/PGPAH*PFDDEIVEPG
4815	12866	A	5695	243	1660	AEPDTSPI*TPQSGSS*GNITS/EPWTWTP PGLKMQQRVLCLCTL*PP/RRLPVCRPAA G*TRLDR*EGHPGAVPREATGVFGA LPAQASVRSIWPALATCVAITVQTSZ/DA EVAROG/ICFAPHPAYPPA*PALCCPARA DPRGRVLO**ADAVGPAPP/AVHRAVS HPGQAQCPHPNPNAPQARVPRETCLPAL QLAAPVLRAGATAASAPTEEEEEEACLE EEEEEEEDSDDEEDQRSGKDSEAWVVDSEE RLIUREEFTSRMHQRFLDGKDQDFDYST VDDNPDFDNLDIVARDEERYFDEEEPE DAPSFLDGD*WPPPFPPPAJSPSPTRQLI PGLLSDPFSRGTS/AAVPHNPTHPSHWV *SHLRQPPPLFLGFPFSSLPCLPLSFLV SVWASFCFLSFLSFLSPYRSLFPVLWLA SPFLPLSCLRLCLHRRAQGESPLLAGGQ LAGPFVAGSGOFGSALADP
4816	12867	A	5696	7	558	GWLGLGLTKCV*NAEVTCEWVRLMC MSVCASCE/CGGGCCCL/MASGHICECLG MCWSL*ACVFLSKNECLCVSLLGTQCCL CLCVPVSHHLCIRVAHAASLCAMVCQC LCVDGWPMSDPRQGRPGLDPAHLPSG SLALWVRVTEAFCOLKTCGSSALRV GGPLSLLPFLVKRTGGOGAV
4817	12868	A	5697	272	1146	GFLGLEGPLSSSPQVAWATVPLWAQLO GGLAGSCLGQI LAPGPSEARDWWASLA GP*ERVEGADRPRWFHLSPEALVLAAG R/SKARASDPGRSSTLSLHVILKVEKRR VNLRVLSMPPVAGTACHAYDREVLRL CELSPGY YLA VPTFLKDAPGEFLRVFS TGRVLSAIRAVAKTTPTGAALPAGEWG TGPIPG/CSWKFGQTAGGHKNFVASYPT PCVPLFGSPKGPGPRRCVRITLHQHCRRAIS DTEPHPIGFHFQVPEGGRSQDAPPILLQ DPLLSCVPHR\TPRR
4818	12869	A	5698	281	535	
4819	12870	A	5699	1	1014	
4820	12871	A	57	1	1513	
4821	12872	A	570	961	1627	LPHIPAVAVIQNVRSCRGFHGSPTLVVPIG NPRHSRTTILKLLHHJIVIIVRKVFQRIHP CGQAKFIFTTLRNQKPNVVGSTGRPKG VMVGOATAVNRLWMONHYPLTGEDV VAQAKTPCSFDVSWEFFWPTIAAKLV MAPEAHDRPLAMQQFFAEYGVTTIH VPSMLAAFVASLTPQTARQSACATLKQV VADLCREWQQLTGAPLHNGLCVFLMR
4822	12873	A	5700	155	2916	QQKAAGVLPKGKFYGTVPWQRAGQQFQ TDKAKGLTFLGGKAVHLS*HLEREOPPR FAOPGTYASRWKALEEMEKQOREQVDR NIREAKEKLEAEMEAARHEHQMLLMRQ DPLGLAVSCMCMQQGSMRSRSPKUVKHIL YELNLTKLQLSGRSRSLRKWDSPFWGEE AGGKRPLPLVSLAHRSRSPSLLLFPVKHPS KGRPDCTVQRSKPTEKSQQLDLRECISI HVQAGVQIGNACWELYCLEHGIQPDG QMPSD

4823	12874	A	5701	37	1542	PREFTPPA/PPRLQRTTRRRCGFTIDIKSF LKPGEVTKYQRQCRLFVGNLPTDITEEDF KRLFERYGEPSEVFINRDRGCGFIRLAEQ NPWAELAKAELGLAPFLKSRLPLRICFRL HMGAAFDCSRNLSSLFFQLSCLAEQAFS QFGSVKEKAGVVDDDRGRPTGK/GFVEF ASKNLPATKRLWKRCCDGAFULLTTTPR PSPLWKPMEQFDDDEDGLAQRLMMHKTQ QYHKERUQPFRFCSTWGHLFLEYQSR WKADEMEKQQREQVDRNIREAKEKL EAEIMEAARHEHQMLMRLQDLMRRQE LRLEELRNQKLQKRKQIQLRHEEFHR REIEDMIRHOKQEGLRRQOEFGPKPNYM ENREQEMRMGDMGPRGAINGDAFSPA PAGNQGPPMMGMNMNRRATIPGPMG PGPAHGTTRSRSKYGNQS*QIMEQCTND RFPQPPSQMGSQMGSPMSRTRF*NPLKHPM SGVGPVSGPGGGFGRGSPGGNPEGPNN RRRY
4824	12875	A	5702	81	334	HNVHC*VPCGEVGSVIHCWWNGDNLI* PS*KVSWKYESRAFKTSRPLDPTLLLGI QSK*VNGKGDHLDIRLITALFVVTKKL
4825	12876	A	5703	3	448	WGPEB*/PTPTLDGGPGCPCGCGSPSLP MGPPRGRGPPTSMSLLCRWPGVPLGSPP GCCPRARVKLPHPGPDVSTSPWAGHG AHQDF*GPVSGSES/PPAGHWAPPSTS SPKIQAGL*PEGMRTAQPPSVAVGSPQG SFRHKEGWG
4826	12877	A	5704	1	206	GSL*SPSPRFKRFSCLSLSSWDYKHVP HLANCFIF*RDWVSPCWLGWSRTPDLH LSWPCKVLGLPS
4827	12878	A	5705	32	401	AFDPDKLPWNFRLCQVNRCGISEWAGMS EMGMSDIQLSVGKLVAR/CWLQAEI* QFTKQER/CPSLTRSRWHQOPREGQAER PFLCAPPEGAPIGLR*HHLRVQLAMA/WI KFKMLGQSPLPYI
4828	12879	A	5706	252	415	AFCPKPRADSVTKQER/CPSTLWTRWHQQ PQGQQAERPFLRAPPEGASTGFLRQH
4829	12880	A	5707	2	164	FIIYLFLFLRLWSLD/SVIQAGVQWHIDU CSLQLPLPGPK*FSDCSTVLQPGQRSETG LKYYFFITV*EMESCSVIQAGVQWHNDLF PATASAWWQVILRLHCTPAWATE
4830	12881	A	5708	1334	1706	VRPHEGARAAGPGGRGRGDFGLGARALP QPRVAVAGAACQPPSSRLRHAGHRGPVM HAVGGSTFLFGFGRQ*LSSHSSSTRQCPSSRD SVWGLQPHISSLHCPSPRGSP*GPIIPCIRL LPGHGPISHLL
4831	12882	A	5709	57	376	KRGKLSGICPRPRVQW/RKTLAQLQPSKL PGLK*TFP/CLSLLK*TGHTTCAPLCPNFF VFLTYLIEM/GLTMLPRLVSYFWFQV/FP SLASQSTGTGVSHIALAWWSMQ
4832	12883	A	571	803	1403	FNRRILKINGLTREQTSQVQQQIRQALSA LPLPVNRLEEFNDNCREAWRKCQAWLKD IESARLQHNQAYTEAMLTEYADFPRQVE SSPLNPAQARA VVNGEHSLLVLAGAGSG KTSVLVVARAGWLLARGEASPEQILLAGL VAKPLKRWTSGFANGYIPKTLPHARFMR *ALHIIQQGSKKVPIVSKLENDTACRHEL FIA
4833	12884	A	5710	9	264	PCPPNTN/CPLGLRLP/CPPHLCPSLCLGK VGFP*KVPQTPLSGETEQLKKPPVMA SGWTGGRNGGWEKSLRGKERRVFSQEG FP

4834	12885	A	5711	124	770	QYPTATHGNVKSSLLSGASLKRLLRH CCSCLFYIVQKQPKLNKTLFRSYICDQT TRKSKGHNWKFFPFMERSVVAQAGM QRWNGLSLQ/PPPPGMPMLSCSLSSWD YKRPPPCPANFFVFLVETGFTVLARMVS S*PCDLPLASTSQSAGITDVSISHAWHFK PETWRERGEEHVDRHFLRLLDRFTDT HFIKKELMRSDTL
4835	12886	A	5712	2	232	CLSLSS*YGRMSPRPANF*FLVETGFH HIGEAGLELLTLGDPPASASQAGITGV QRGSLSFAFLMLSSTSFCK
4836	12887	A	5713	1	242	QAGVOWHDLGSLQOPPLPLGKQFSCSLP SSWDYRRVPPRLANFC/DFLVETEFHHV GOADLELRTSQNLPTSASQSAGITGVSH HA*PKVGLQV
4837	12888	A	5714	1	133	ERLYFRVEHLDQRLKAAENKFYSVCLM TWLKGCGWCLEFKFLNRNAIMIAY GTINFCTSARNNAFFLIMRNRIAVLDDK TDFLFLLGKLLIVGSGILAFFFTHRIRI VQDTAPPLNYYWWVPILTIVVGSYLLAIGF FSVYGMCVDTLFLCFLDELERNDGSAER PYFMSSTLKLNNKTNKAAES*RLRYF RVEHLDQRLKAAENKFYSVPIHDLAQMR LLVPGEVIHQIP
4838	12889	B	5715	166	969	MGSACIKVTKYFLFLNFILFNSVLP GVWILADKSSFSIVLQLTSSSLRMGAYVF IGVGAVTMLMGFLGCIGAVNEVRCLLG YFAFLLLILIAQVTAAGLFYFNMGKLLQ EMGGIVTELIRDYNSNRSDESLQDAWDYV QAQVKCCGWWSFYNNWTDNAELMNRP VITYPCSEVKGEEDNSLSVRKGCEAPG NRTQSGNHPEDWPVYQEGCMEXVQAW LQENLGHILGVGVGVVIAIELLGMVLSICLC RHVHSEDYSKVPKY*
4839	12890	C	5716	300	347	MIHLPRPPKVGLQA*
4840	12891	A	5717	316	797	APALPQTGLAASSHMVQVPLWICLCLS HSKRNSNPQLFF*VFOFLRSSLSSVPOAG VQ*HDLSLQLPP/PPGFTPFSCLSLPSSWD YRCPPRPAKFFLY**RGRFTMLARMV SIS*PRDPNPASASQAGITGVSHRARPPP QFIIQLPLYNIHTLEGR
4841	12892	A	5718	2	519	WHIQSDVQAEVOWRDLGLQSSPP/GF TLSFCLSLSSWDYRPPPRFG*FLF**R RGFTVLARMVSIS*LHDPPALASQAGIT GVSHRTPGADL*PRVQKPRASLG*NH MCNMKSLSPTGQTRLNKGRRLGHFDPDH RWKETPGL*CFHGNFCGALKAGRAHLD GQGR
4842	12893	A	5719	1	663	
4843	12894	A	572	3	1642	
4844	12895	A	5720	1	1561	MATSTGRWLLLRLALFGFLWEASGGLD SGASRDDDDLLPYPRARARLPRDCTRVR AGNRHEHESWPPPPAPTGAGGLAVRTFVS HFRDRAVAGHLTRAVEPLRTFSVLEPGG PGCAARRRAVEETARAADCRAVQNG GFFRMNSGECLGNVVSDEERRVSSSGQLQ NAQFIRRDGTIVTGYLSEEEVLDTENPF VQLLSGVVWLIRNGSIYINESQATECDDET QETGSFSKFVNVISARTAIGHDRKGQLV LFHADGHITEQRGINI.WEMAFFLKKQDV VNAINLDGGGSATFVLNGTLASYPSDH CQDNMWRCPRQSVTVVCVHEPRCOPPD CHGHGTCV/DGHQCCTGHFWHRGPQCD LDCGPS*LAQHGHLNGSTGSLASVDAG WTGSNCSEECPLGWVHGPQCRQCKCEH HCPDCPKTGNCVSRRVKQCLQPPEATLR AGELSFTIRTAWLALTALAFLLSISIAA NLSLLSRAERNRRLHGDIAYHPLQEM

					NGEPLAAEKEQPGGAHNPFKD
4845	12896	A	5721	1119	2008 ALHPPAQGELFCDYFKDPSEGPQSPPLTRLAPHPQTQCTELSGGRGSAVLEECVPTPASAHLAASPAEAAGTAGVWR*RHIF/HSTGLLGPR*LSMSLIMS*CKAGRCPGEDCPRPLPGCSLSPLERKLCPSSA*GPA SFLGGITAKASGCSLSLRP/HSHIOGHGLWEKL*VPARRAGGGVCFKSA*PHLQLS**KPSKASKREG*Q*TLPSATIGELPK*HA PKHLCNAOGFLCKIH*HIIK/TQANAIAKA*GGPGSLEGTIERRPGSPSSILGVGSGKTEVNSQNCRILGRECVS
4846	12897	A	5722	3	444 FFFFLRQLSLNSVI*AGVQ/QPLPPEFKRLSCLSLPSSWDYRCAPAHSAFNCIFSKD/MGFTMLTRLVSNSWQQ/CELPTLASQSOGITGVSHHTQPIYHFFIVETEPHHVAQAGVK/PPLSK**SSRLSLPKQWNYSHEPLYPALFNETFFFK
4847	12898	A	5723	1	6738
4848	12899	B	5724	107	467 MRLHETLKQCQCDLKTEKSQMDRKINQLSEENGDSFLSKLREFASHLQLQODALNTELTEHSKATQEWLEKQAQLEKEELSAALQDKKCLEEKNEILQGKLSQLEEHLSQLQDNPOQEKGAEALX*
4849	12900	A	5725	149	577 GLISTRPLSCRHTL*GPLQSSWEYMDPVWDLRASEGNQKLLYSARDCTLQJHVSFQKLDVEEPDSANSSFYSTRSAPASQASLRTATSTSQSLARLGSPPDVGNSSALLSLPGYRPTNTRSSARRSQAGVSSGAPPGEGETTGTYY
4850	12901	B	5726	24	219 MPRSSRTKSCRSCCGAWSSCMKENKELR.AEAERLGHELQOAGLKTKEAEQTCRHL.TAQRVRSLLGGTX*
4851	12902	A	5727	272	683
4852	12903	A	5728	1	406
4853	12904	A	5729	211	5508 IWCLFPPLSVHMGLIYSQKCLEEKNEILQGKLSQLEEHLSQLQDNPQEKGEVLGDVLQLETLKQEAATLAANNTQLQARVEMLETERGOQEAKLLAERGHFEEEKQOLSSLTDLOSSISNLSSQAKEELQEAQSAH GARLTAQVASLTSELTITLNATIQQQDDELAGLKQQAKEKQAOQAOQIQQQEASQRLRHQVEQLSSSLKQKEQQQLKEVAEKQEA TRQDHAQQLATAAEEEREASLRERDAALKQLEALEK

4854	12905	A	573	114	5270	SARSASFRPGPAARRPKCSHPLVPTDGV PECCKVHPASTNPPRRTSTAARSHHN DGSTSTMGRWTWQIVGYLSVSQSGLPDLT SAIQAQRETLPMPHMVPEVLLQLPQLP. NANGKLDRKALPPELKAQ/APGRAKA GSETHAAAFASSLLGDV/QDADADFALG GHISLLAMKLLAAQSLSRQVARQVTGPQV MVASTVAKLATIDAEBEDSTRRMGFETIL PLREGNGPTLFCFHPASGFAWQFSVLSR Y1.DP
4855	12906	A	5730	111	407	NLLRTMIFWFGFEDRVWLCCPVLTATSV LTATL/TFPGFKQFSCSLLSSWDYRCIPP HPGNLWYF* RQGIFTMLARLDSNSGPQA IHPQQPKVLGLHV
4856	12907	A	5731	3	613	GLRALRRQQGLPGI**CCSRQPSPRAQG HPSMGPMQRVTPPRGMASVGPQSYYG GMRPPPNSSLAGPGLPAMNMGPGVRPW ASPSGNSIPYSSSSPGSYTTGPFGGGPPT PIMPSGPDSTNSSENMYTIMNPICQGAAGR ANFPLGPGECPMAAMSAMSEPHHVNGS LGSGDMGMDGLPKSSPGAVAGLSNAPGTP DDGEMAA
4857	12908	B	5732	134	471	MYAKGGKGSAVPSDSQAREKLALYYVE YLLHIGAQKSAQTFLESEIRWEKNIMPSPG DSTNSSENMYTIMNPICQGAAGRANFLPLG PGPECPMAAMSAMSEPHHVNGSLGSD MDG*
4858	12909	B	5733	223	692	MEPSRRAQGHPSMGGXMQRTVPPRGM SVGPQSYGGMRPPPNSSLAGPGLPAMN MGPGVRPWASPSGNSIPYSSSSPGSYTG PPGGGGPPTIPMPSGPDSTNSSENMYTI MNPIQGAAGRANFLPLGPGECPMAAM AMEPHHVNGSLGSDMDG*
4859	12910	B	5734	228	292	XLARDDHERVVMGRQPRASLRA*
4860	12911	A	5735	1	1753	MYAKGGKGSAVPSDSQARENLSAFOAA TELTSLDRLALAYVEYVYLHIGAQKSAQT FLEIRWEKNITLGEPPGFLHSWWYGL GCCGVFWLDLYCAAPDRREACEHSGEAK AFQDYETTERPAIRHNGAGRAGSSSGMI DVGGSDPQILRPTPTVCSLTNASSLSHG AGHLORGGGTPOSAAAAPSVPVMSGMAP GDTMAAGMSAAGEFFQPGPGSOPSPHNP NAPMMGPHQOPFMSPRFPGPRTLDRJ GSQPPAGPPWVPSSSPGAMEPSRRAQG HEHGRPNARQVTPPRGM/GPAWGPRA YGGGMRPPPNSLTRPRACLPNNMGPKR FVGFWAQPVVEYIPYSSSSPGSYTGPP GGGGPPTIPMPSGPDSTNSSENMYTIM NPICQGADIANFPFLGPGECPMAAYLG GMEPHHVNGSLGSGDMGDLPREPPQAP VAGLSNAPGTPRDGEEMAAGTFHAPS SQSEENYSPGMDTMRSRVNWAAAPGALCG PRLLPRRPCI.RAKGLKVTPSGTLDSSLAN QGLPMLGGPTRLKTLJILLKTQPRETIFS VWTLPACII.VPERKAL.WGGPSSPGRQG GGAI
4861	12912	B	5736	315	458	NGPSRTQQPSLIDVLYCPEAIVSLVGVLR RLAACQEHKRAPEVYVAFT*
4862	12913	A	5737	202	402	
4863	12914	A	5738	1	3156	

4864	12915	A	5739	1	1470	MAPEEENAGTKLLOSFRRFLAARTLRS FPWVQGGGASGEACGACGSPGADGMG LPAETPGAPATEGSHSALPTHSIAACPNVP VNAPLRFLSLPSTRSLEAKLIRDSSDSELL RDILQKHEAVHTELLDELYEALAEITLMA KESTQGHWSYLLPRYPSCITDKVKTPRKA RSHPSTAISHTGTLVTWDAARYLAE WAIKNLAAFTNRTVLELGSAGALTGLS CKM/WPPPDHHLHDCHSRVLEQLRGNVL LNGLSLEADITANLDSPRVTVAQLWDV ATVHQLSAQFDVWITADVLYCPEAVSL VGVLRLAACWEHQWAPEVYMAFTVR NPETCQLFTTEAPSTCEGVLSLSHLTDK NTTIRGOETPELPQIAARPPGSAFTVH PSPLLPDPFAPAPPEHSPSWQPCAKMHQ QPLPAHRDMDDPVPHVQGPVNYRANK QASTRRHTGFHDRVPHNLQAEGQAWG SGLSSQHFRRRLRQED
4865	12916	A	574	1	2967	
4866	12917	A	5740	2	413	
4867	12918	A	5741	3	231	
4868	12919	A	5742	83	1503	SWNTPYNHWATKQ/LSSHYSRGGAKEYE GEAVKQSLSVESYTHPNSNEETERSANIDT VMNWFTKEDFDFTVLCYREPDNVGHRF RPEAENRKLMIQDQDTRPWWDDHREET QCQQDPLSNYIKFMDLVKFDIVGYGGFG MLPKLQEEALYQALKNAYPHLHYIK KEGPPEHFLAKHDRVLPJVMYANFGYS INGISLLYFTLHCDKQYFNVHHFPEPLS WRAQTTPSLSHRYISLVRHMDATNLDas EAQLPGSPYDASPAGPANLDSTQDLPQR RLSWPYPRPRPPNAHPGPALOPAPRILL TLPQGAPSLPPRTAALGPPPQLSRPGFRPV SRQRCGAFAHMAPEENAGTELLQSFER RFLAARTLRSFPWQGGGRERAEPAGLA GVQGGTGWWSVLPKPFALLPREFLGSPRS GPRDPVPVPGAWPKSLAPLPLPRELAED EGVSTALGGQTRARCGVQFTIIFTF
4869	12920	A	5743	266	477	DFSLSRPHGA*KQN*ETHQILSCC/GDILH KTVK/HSCVCEAPAVRQICPVLSLRTHQK ARGCPHRAFGRAV
4870	12921	A	5744	148	592	SHVALGOLGWLTTRAVRSSWRWELCVSS TGSLPAFSLKQPKSRCRW*EEVKTGSC VGISHWQTSV/FFQAVFHLLPVLLPRSL ACLSFCRGCAQIRICQ*TPPYPLFIIHTYS FGMLSSTVLRHILETNNKEKSLLAAEGV RHLOVS
4871	12922	A	5745	164	667	ERGTYICQITTSLYRAQQIQLNIQASPKV RSLANEALLPTILCIDIAGYYPLDVVVMM WTREELGGSPPSPLWSSFSKPQAKALAG TYSISSLTAEPG/RLQVPLVYTCVTHISL EELPLGASTPGCPTRAENSLSGHLCQQSLP SCTDVPWGFRDQGAPNRTWAASG
4872	12923	A	5746	1	790	VEELSKKLADSDQASKVQQQKIKVVGQL GEWVWPLDKGGKLFSKLWGRGGLVYK WFLLIYKISYATGIVGYMAVMFTLFGLN LLFKIKPEDAMDFGISLLFYGLYVGILER DFAEMCADYMASTIGYSESGMPITKHLIS DSVCVACGCCQIFDVSEE/EDH*EHRS/ CFHEFCIRGWCIVGKQKTCYCKEVSDL KRIMFSNPYPLLGSLLGVGGKKVLASVT CIWVLLGSPSLPPTRTQTMNNKKIMKV MMRIKRMMDTDMAS

4873	12924	A	5747	1	1005	FRGRAVKMAAVVEVEVVGGAAGEREL DEVDMSDLSPEEQWRVEHARMHAKHR GHEAMHAEMFLIJLJATLWVWQQLLLVQW KQRHPRSYNNMVTILFQMWWVPLVFTVKL HWWRFLVIWILFSAVTAFTVTRATRKPL VQTTPRLVYKWFLLIYKISYATGIVGYM AVMFTLFGNLNLLFKIKPEDAMDFGFSLLF YGLYYGVLERDFAEMCADYMASTIGFY SESGMPMTKHLSDSVCACVCGQOFVDSVE EGDIAETTYRLSCNHVSHEFCIRGWCIVG KKQTCPYCKEKVDLKRMSFSNPWERPHV MYGQLLDWLRYLVAWQPVIIGVVGQIN YILGLE
4874	12925	B	5748	99	236	XTSTSSTVTVTAPGPAATGSPVKHRRP LLPKETAPAVQRVWWNSX*
4875	12926	A	5749	1	783	
4876	12927	A	575	1882	3402	LDASFWIPPKATQGMWTWIFTFPSSPSYNS SCYAGWLKGASPLQLSQPHHTAYIIFTS GSTGRPKGVMVQOTAIVNRLLWMQNHN YPLTGEDDVVAQKTPCSFDVSQFFAEGYGV TTTHFVPMSLAFAVSLTPOTARQSCAT LKQVFCSEALPADLCRVWQQLTGAPL HNLYGPTTEAAADVDSWYPAFGEELAQVR GSSVPYGPGYLGRPDLTAVSRFIADPFAI PGERMYRTGDVARWLDNGAVEYGLRS DDQLKIRGQRIELGEIDRVMQALPDVEQ AVTHACVINQAATGGDARQLVGYLVS OSQLPLDTSALQALRETLPHPMVPVVL LQLPQLPLSAKAGCPAAQVPRVAQVRV CAVLEDLGDIRESERGERKQEADAVLGTQ DTPRVTSQPNGLLKIIEPQENVKIEGOHQ GLVWLCVVAASPVLRVTRKEEKKKKEE GNNMRFTSLVLSVLVNUVRALEKVKLDI MFNCNCRTGVQAITLSHRRALAJAIALAR YIKSALYDG
4877	12928	A	5750	1	1626	
4878	12929	A	5751	1	542	COWNTGYCD/YPCQQAHWPEHIKSCQTQS VATALQOGADVEVNTEPLNKSSQGSSST QASPESETAASASKEKETAESAKSKESGSTL DLSGSRETPSSILLGSNQGSVSKRCDKAT LLCPNHHRPPAAPQPLPRPEVPPTELNSR LSPPVFKKCHRRVPIPNTSTSTSLLPKE SRLDTFWD
4879	12930	A	5752	1779	3628	MEISEDVYTAVGHSDSEDESEKSDSSDSEF ISDDEQKSKDEPEDTEDKEGCOMDKEPS AVKKKPPTNPVEIKEKLKSTSPASEKAD PGAVKDKAASPEKEPDFSGKAKPSPHPK DKLKGKDDETDSPVTHLGLDSSENELV DLGEDHSGREGRKNKKEKEPSPKQDV VGKTPSTTVGSIISSPPETPVLTIRSAQTS AAGATAATTSTSSTVTVTAPAPAATGSPV KKQRKLIIPKETATAPAVQRVRVELIK*SF KRPKSGTCRRCSVSSSSSSKTSSSHQS SQGTRYQTRQAVKAVQKQETITQSPSTTI TLVTSTQSSPLVTTSSGMSMLTVSSVNA PIATASADVAAJIAKYTSKLMDAIKGT MITEIYNDSLKSNTGTSIAEIRRJIEJEJKL QWLHQOELSEMKRHNLELTMAEMRQSW EQEDRDRJIAEVKKQOLELEKQQADEVTK KQWCANCKKEAIFYCCWNTSYCDYPCQ QAHWPEHMKSCTQSATAPQQADEVAEVN TETLNKSSQGSSSTQSQASSETASASKEK ETSAEKSKESGSTLDSGSRETPSSILLGS NOGSDHSRSNKKSSWSSSDERGKSTRSDH NTSTSTSLLPKESRDLTFWD

4880	12931	A	5753	2	1711	RSEDSEKSDSSDSEYISDDDEQSKSNPEPD TEDKEGCQMDKEPSAVKKPKPTNPVEI KEELKSTSPASEKADPGAVKDKAPEPE KDFSEAKFSPHPKDKLKGKDETDSPT VHLGLDSDSESELVIDLGEDHSGREGRK NKKEPKEPSPKQDVVGKTPSTTVGSHS PPEPTEVLTTRSSAQTSAAAGATATTSTSTV TVTAPAPAPAATGPVKQRPLLPKETAPA VQRISCGTSSTVQQKEITQSPTSTITLVT STQSSPLVTSSGSMSTLVSSVNAIDLPIAT ASADVAAIDIAYTKSTMMDAIEGMTEI YNDLSKNTTWKAQLAEDSQGLRIEJEKL QWLHQQELEMKHNLELTMAEMRQSL EQERDRLLAEVKQOLELEKQQAVENTDETKK KQWCANFKKEAIFYCCWNNTSYCDYPCQ YQAHWPERHMKSCTOSAYCSSLRKADAE VNTETLKLSPSQGSSSTQSAFPFRKRAP SKEKETFLSRKAKESGSTLDSLGSRETPS SILLGSNQGSDHRSRNKSSWSSSDERKG SVTRSDHN/IPSTQHGRSLLPGKESRAGTP FLGTSK
4881	12932	A	5754	I	191	MQK*ITAWAPAPMKIIJIASPERKYSVWI GGSIWPQLST/QFQMWISKQEYDESGPSI VHRKCF
4882	12933	A	5755	2	1203	LRRRCQLSHSVLPPLRRRVLSPVAMEEEI ALAVIDINGSGMCKAGFAAGDDAPRAVF SIVGRPRRHQGVMVGMGQKDSYVGDEA QSKRGILTLKYPIEHGIVTNWDDMEKJW HHHTFYNELRVAPEEHVLLTEAPLNPKA NREKMTQIMFETPNTPAMYYVIAQAVLSL YASGRITGIIVMDSDGDTVHTVPYIEGYA LPHAILRLDLAGRDLTDYLMKILTERGY SPITTAEREIIVRDIKEKLCVYALDFEQUEM ATAASSSLEKSYEELPDGQVITIGNERFR CPEALFQPSSFLGMESCGIHETTFNSIMKC DVDIRKDLYANTVLSGGTTMYPGIADR MQUEITALAPSTMKIIJIAPPERKYSVWI GGSILASLSTFQQMWISKQEYDESGPSIV HRKCF
4883	12934	A	5756	3	412	SRFEGLFQPFPGUMKSCGIHETTFHS/H IKFDVAIRKDLYANTLPPGNHQVSGL LTGMQKEIHAFAQATLRFKJIAPPGSAS TRW/VGSVGSILASLSTFQQMWISKQEA YDESGPLHSSTAKCFNLNGLSQIA
4884	12935	A	5757	I	2297	MGRDWNSLESLEEDRKMRESLEHARDL LNCDCDQNADHHMDSEVQAEVVSSEGDEE LIGKWSKAYCHRCEQKDDLKWEILPKRE AEHKSLLEIQPDHVVEKINPQGGGRNQST SSSWVGTVAEITTHEAVKCKIQVLLQQQA DDAEERAVERSQRERFERRAREQAEAE VASLNRRJQLVVEELDRAQERLATLQLK LEEAEK/SLADESERRYRLFENRALKRL KEKIGTSREIQLKEAKHIAEEADIRKYEE VARKVLVIEGDLERTEERAELAESCR EMDEQIRLMDQNLKCLSAEEKYSQKE DKYEEEIKILTDLKKEAETRAFAERSVA KLEKTIDLDLEDNSTSGDPVEKKDETFFG VSVAVGLAVFACFLSTLLVLNPKCRR NKGFIINRPAVLAPEGLAMSLHFMTLGG SSLSPTEGGGSGLQGHIIENPQYFSDAVC HHKRRDIVLKWELEGEAGFGVFLAECII NLLPEQDKMLVAVKALKEASESARQDF QREAELLTMLOHQHIVRFFFVCTEGRPL LMVFEYMRHIGDLNRFLRSHGPDAKLLA GGEDVAPGPLGLGQLLAVASQVAAGMV YLAGIHFVHRDLATRNCLVQGQLVVKI GDFGMSRDIVSTYDYYRVGGRMLPIRW MPPESESILYRKFTIESDVWSFGVWLWEIFT YKGQPWYQLSNTAEDCITQGRELERP

					ACPPPEVYAIMRGCVQREPSNATASRMC TPGCKPWPRHLLSTWMSWARQPAQGLG VVSRTNGACPQHPP
4885	12936	A	5758	3	636 WAWNQAEAEVASVNNGRIQLVEEELDCA QERLATALQKLEAGKAADESERGMKV IENRALKDEEKMEQIQLKEAKHIAEEA DRKYEEVARKLVIEGDLERTERAELA ESRCREMDEQIRLMQNLKCLSAEEK YSQKEDDEYEKEIKLNTNKLREAETVRAEF AERSVAKLEKTIDLEDKLKCTKEEHLC TQRMLDQTLLDNEM
4886	12937	A	5759	1	239 QCCSGGITHGNAIGDRMOKQILPWAPA OMKIRFMAPPERKYSVWIAPILASLSTS SRMWISKQEYDESGPSIVHRKCF
4887	12938	A	576	22	413
4888	12939	A	5760	3	1458 ADPPPVTHTRRQLTMDDDIAlALVVNDNGS GMCKAGFAGDDAPRAVFPsiVGRPRHQ GVMVGMGQKDSDYYVGDEAQSKRGLITLX YPIEHGIVTNWDDMEKIWHHTFYNELRV APEEEHPVLLTEAPLNPKANREKMTQIMF ETFTNTPAMYVAIAVLSLYASGRRTTGIV MDSGDGVTHTVPIYEGYALPHAILRLDL AGRDLTDYLMKILTERGYSFTTTAEREIV RDKJ/EEAVLRRPGLRARDGHGASSSSLE KSYELPDGQVITTINGERFRCPALFOPSF GMESCOIHETTFNSIMKCDVDIRKDLYA NTVLSGGTHQFPLPCRPGC*KITALEP ATMKRIIAIPPEAQSTPLWNRGAPILAS LVHLPAKMWDQKSREYDESGPLPFVHR KICFF
4889	12940	A	5761	171	324
4890	12941	A	5762	3	383
4891	12942	A	5763	2	314 FFFFISALKALFAFLQILLFQVNVLRITA IVISPINLLSVTPSKAFLLLAIFCREDSYF TAYATISYLKIGPKANLNNNEAYVITMQ VTKSTQNSFRVNGY
4892	12943	A	5764	1	176 MRTFALLTAMLLLVA/HQAEPLOQARAD EAAQEQPGADDQEMAHAFTWHESAALPLSA

4893	12944	A	5765	1	2674	GKHKILLSTGPTEPWLSIREKLCLASSVMR SGDQNWWVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGKEGKVEV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAQGHMDSRLDEL.CNDIA KKLLEEEAEVKRKAATDAAYQARQAVK TPPRRLPTVMVRSPIDSASPQGDYPLGLD LPTIMEEATSGVTPTGTLPTSTPVTSFPGIPD TLPPGSAPLEAPMTPTDDSPQKKMLGQ KATPPSPPLSELLKKGSLLPTSPRLVNES EMASAGHLNSTGVLLVEGGVLPMLHIG GEIQQTNPVAAPSAESVSQATIVMM PALPAPSSAATVSTTESAVPSQPDNCVPM MEAVGDPHHTVTSMDSSSEIMIINSKEE CERSGVAEAPVGSKAPSIDGKEELDLAE KMDIAVSYTGEELDFETVGDIIAHEDKV DDHPPEVLVVAAVEAALSFCEENDDPQSL PGWEHPIQQERDKPVPFLPAPEMITVKQE RLDFEETENKGIGHELVDIRPESAIKVEPA EPEPVISGAEIIVAGVVPAATSMEEPELRSQ DLDEELGSTAAEGELLEADVAIGKGDETPL TNVKTTEASPEMSLSPSHGSNPEDPLEAE TQHKFEMDSLSKEESTGTIFGSQIKDAPGE DEEDEGVSEAAASLEPKEEDEDQGEGYLS EMDNEPPVSESDDGFSIHNAQLQSHTLAD SIPSPASSQFVSCSEDQEAIQAJAKWKK ADMLVWRAAANHRYANVFLQPVTDDIA PGYHSIVQRPMDSLTIKKNIENGLIRSTA EFQRDIMLMFQNAVMYNSSDHDVYHM AVEMQRDVLEQIQQFLATQLIMQTSESGI SAKSLRGRDSTRQDASEKDGGTRGRRA CAIEADMKMK
4894	12945	A	5766	1	419	YANVFLQPWQDDIAPGSPSISQGRQ\PMDL STJKCNU\NG\SEAPADFQR\HMLMFQN LL\MYHSSDHYFVHIANEMQ\RDVLEQIQ QFLATQLIMQTSESGISAK\SLRGRDSTR \QDQDASEM\DGOTRGRURCAIEADMKMK
4895	12946	A	5767	2	111	ISAKSA\RGDRDSTRKQDASEKDSVPMGSP AFLI.SLF
4896	12947	A	5768	3	2884	OKHKILLSTGPTEPWLSIREKLCLASSVMR SGDQNWWVSRAIKPFAEPGRPPDWFSQ KHCASQYSELLETTETPKRKRGKEGKVEV ETVEDVIVRKLTAERVEELKKVIKETQER YRRLKRDAELIQAQGHMDSRLDEL.CNDIA TKKKLLEEEEAEVKRKAATDAAYQARQAV TTPRRLPTVMVRSPIDSASPQGDYPLGLD LPTIMEEATSGVTPTGTLPTSTPVTSFPGIP DTLPPGSAPLEAPMTPTDDSPQKKMLG
4897	12948	A	5769	3	627	PRGENRFAKAQOEWRKTPCQMLMLSSTF RCTYJIGKFUTTIALPYVKGELNMIML PDEITTDLSTVEKDSTHAKFVEWTSLD MAAEEEVKLSPRFKLEESYDMEVLSRLN GMDIAFEAGARANFSGMSQTDLSLVRQ SCCKSICGRSNEGRPREAASPKVAJMM MRCACURFCPPPPADHPFLFVQHRUKTN GULFCGRFSSP
4898	12949	A	577	1	2148	
4899	12950	A	5770	3	626	YNLNLVTFRLA1LSFEKDDDHNGHIDFTTA ASNLRAKMYSIEPADRFTKTRIAVKKILV KPTTTGTVSGLCVCFEMIKVVTGGYFPFAAY KNCFNLNLSHS\IFVVITEETTEVRKTKIRNG ISFTIWDRWTVHGKEDFTLLDFINAVKE KYGIEPTMVYQGVKMLYVVPVMPGHAK RLKLTMHKLVKPPTTEKKYVDLTVSFAPD IDGDEDPGTSK
4900	12951	A	5771	92	265	SFELFADKVPKTA/WLDGKHVVFGKVKE GMNIVEAMERFGSRNGKTSKKJTIADCG QLE

4901	12952	A	5772	1	1310 GNSPPSELWKWAKAKSEDLRHRLGLKAOAEI KGSTQGIFTIDPRMRASSPYPITDVARV VNAPIFHVNNSDPEAVMVCKVAEWR STFHDKVVVDLVCYRRNGHNEMDEPMF TQPLMYKQIRRKQPKVLQKYAELLVSQG VVNQPEYEYEVSMHGVRNKPSPSYNSTKSS MDGLILHPATGLVVFVLSKQCEEEHQPVW WTCEREAENATAEENRVLLAMVNPTV FFDIAVGDGEPLGRVSPFVGRAAAACGNGA QKVGRGRRENFPCL*ATGEKGFWL*GVP CFHRLFPRVLCVQGGELQQRH*WPLVG KPHSMOKKKP*KIEELPSLKHGTGSPGILSP WQNAQGPQTNTGPFPSFSICATAKTEWLEW PSHVVFWHK*KEGMNIVEAHSRFGIS RUNGKTQRRSFPAADCQLLIISLTCVFILT TKIISFCRLRRRAPLQPHLLAVS
4902	12953	B	5773	47	204 XQHTFCRKRGVQSFTPRSNPGGFIAPIP HCLDEGTVRSMVTEEFNGSDWEKA*
4903	12954	A	5774	2	402 CGDRGALRPPSCAGRSGPGRPPRPRPPR LPWHFAPPAHGAPLARLPGARARRSEKPP SEKPLRLRSSSPRAQEEGPGEPPPPLLPP PPPPPPTPAIPRPRRPPGPGRAAGALG DVPFEAAEAYLERVPPSSC
4904	12955	A	5775	2	241 FSCSLSLKSWDYLRALPPSPANLFLVETG FHFGVQASLKLTLTSGDPASASOTVGIT GMSSHAWPVSSFYIWSHAWPRNS
4905	12956	A	5776	22	643 VEFFPVLTMAATSGLSALGNFLAQMIE KKRKKENSRSLDVGGPLRYAVYGFPTFG PLASHFYFFMEHWIPPEVPLARVRRLL DRUFFFAPAFMLFLIMNFLEGKDAST FAAKMRRGGFWPAEADETCRVWTPJLQF INNNYVPFESSGCFGGQPGQLLFWYAYL ALLGEVITRWENIRCTGRGSGLHLPPK SCQQKPIQSCH
4906	12957	A	5777	23	448 ELESRSVTQAGVQWCDLGSILQPPPL/SF KOFSSFLSLLSSWDYRHWPPCPANVCILVE MGLVGQAGLELLISSDTPISVSQSAQISV SHGTQPHIGNFLEQLKVVQLCYTSFLCFT STVKHQLIIKIKLRTNNTKNKAR
4907	12958	A	5778	25	396 ISGRSTFSLFSRQGLSALSPLRE/CSVAISA HCNLRLPGSSNNGTTGA**HHTRLLYFLA EMGFFHHVGOAGFEVLTSSNPPASAESTA RITGMSNRTIGHLFNFHP**MCYKYRCGS LAGRGGSRW
4908	12959	A	5779	80	460 YISLNVTITHLFFFFFLRQLGLCSVTAQAV \QWCNLGSLOPLPRFKWNWYRVCVTPH LANFVFLVEMGF/LPASASQSAGITGVSH CTQLGVFICICYGSSHGVRSWHQFCSS KLLVKSGRVGVGGLG
4909	12960	A	578	222	666 SLCFCFLEVSLPACQEITYGKSPFWILSIPF EDIARNLMKRTVCAKSUFLWGHQSPSE ELYSSLKNYPVEKVMVFLHSSTDYKIKH TFNKTLTQEKKIKRIDALEFLPFEKGVNL KKPQHVFSVLEDYGLDPNCIPENPHNIYF GRW
4910	12961	A	579	1664	1844 WQKLLEFLFGTESCSVARVGWQWRILSS PKPPPQGSSNS/PASASRVA@GAHLHAR LIVFL
4911	12962	A	5792	16	301 IFASTAPKRKRSWALRGPOLVSVATAKASF GAPTIPSURPGPQSVFANSDLFPAPPQIPSR PVRIPPGIPPGVPRRPPAAPSRTIIHRPAEP SLLD
4912	12963	C	5793	78	209 MSVFXXXXXXXXXXXXXXXNEET NHPLGVVYRLSD\$TQYI*
4913	12964	A	5794	119	231

4914	12965	A	5795	69	909	EWCLLSSPPEGHTFHJWGITELKTKRGR KPSRPMPMCYGKCARCIGHSLVGLA1LCI AANILLYFPKGETKNASENHLSRFWVF FSGIVGRL/VLLMLPAQHFVLHWGLEQD DC/GICCGHENNCGKRCAMLSVGWLS IGNAGSGLLWSIV/VQPLGLARKDPLCLD S/LSGWKLQPLPSTECPVTFWITSTWSAE CTEPKHIVVKWNNSLFSILLA LGGPELILC LIQVINGS/VLGGICCGFCCSHQQYGLAK RTNPGETPQSFLYFHCLNLSYLHMS RTNPGETPQSFLYFHCLNLSYLHMS EE
4915	12966	A	5796	1	200	RGPVLLDTS/TWARCNEPKPV/EWNNDTL FSN/LLASGGIEFLCLIQVINGVLGGICGF CCSHQQYQDC
4916	12967	A	5797	2	424	RLSLTVAQAAVQWHNLGSLQPPPFGK RFSCLSLPSSQDHRHTPPCPA/NSFVFLVE IRLJHAGQAGLKLPTSC/DTPSSASQ SAR ITGVSHRARCWDNSNTIFLGSLANSNWR NVFLVGERIKGKHTHFNTHSMSEEE
4917	12968	A	5798	46	626	
4918	12969	A	5799	1	1004	MWLILAGLAWAGLWVSDGLKDVLM KGKSRRGKSAPKHMISLGPLMIAF AICH FASVMGFHYLEVNRLQLQCFKYQLIETA FAVLFQSVLRITYSSRIWDXTSLECLKVLT GHTGSVLC LQYDERVIVTGSSDSTVRVW DVNTGEVNLNTLHHNEAVLHLRFNSNGLM VTC SKDRSIAVWDMASATDITLRLV LVG HRAAVNVVFD DDKYIVSASGD RTIKNR DKAEVAYTNLVWSTSTCEFVRTLNGHK RGIA CLQYRDRLVSGSSDNTIRLWDIEC GACR VLE GHEELVRCIRFDNK RIVSGA Y/DMGFS SLELLATWLPNA*GSFTAE
4919	12970	A	58	1107	1365	HSGSA/GMHWNILFLVHCMOAH!*FDFRL LHM**CNGRGPFALC TRCSQ*DSGAN WDK*KNILPLRNFGWLGFNRDLGSRGW VPEV
4920	12971	A	580	3	439	
4921	12972	A	5800	1	3084	
4922	12973	A	5801	3	265	
4923	12974	A	5802	242	401	DLYAATYSHSHT/LVWSTSTCEFVRTLN GHKRGIA CLQYRDRLVVSGSSDNTI
4924	12975	A	5803	2	385	FVFAA RGERGGFAGAVMEPDSVIEDKT IELMLPKCMFGI LKKAGYSKRKESWK MLDCCLFS'D*SERENPHSFWIGGSEVQNI FQNTSVMEDQNEDES PKKNTLWQISNGT SSVIVSRKR PSEGNYH
4925	12976	A	5804	1	1248	
4926	12977	A	5805	2	1653	RGGAAGAACMEPD SVIEDKTIELMCSVPR SLWLG CANLVE MICALS CLO QSMSVRC LQISNGTSS VIVSRKR PSEGNYQKEKDL IKYFDQWSESDQV EVFVEHLSRMRCHYQH GHINSYLKPM LQRDF ITALPEQGLDHIAE NILSYLDARS LCAE LVCKE WQRVQIS EG MLWKKLIERMVRTDPLWKGLSERRGW DQYLFKNRPTDGP PNSFYRSLYPKIIQDIE TIESNWR CGR GRHN LQRQCRSEN SKGVYC LQYDDEK IISGLRDN SNIKWD TSLECL VLTGHTGSVLCLOYD ERVIVTGSSDSTV RVWDVNTGEVNLNTLHHNEAVLHLRF NGLMVTC SKDRSIAVWDMASATDITL RVLVGHRAAVNVVDFDDKYIVSASGDR TIKVWSTSTCEFVRTLNGHKRGIA CLQY RDRLLVSGSSDNTIRLWDIECGACLRV EGHEELVRCIRFDNK RIVSGAYDGKIKV WDLQ AALDPRPAPASTLCLRLTVEHSGR VFRLOQFDEFQI USSHIDDTILWDFLN VPP SAQNETHS PSGTYYT YISR

4927	12978	A	5806	1	180	NFKRKFHKTTIAETASYWPK/DRHINQRN/RESPVINPPTYQLIVDKGAKNTQWKGDNYFN
4928	12979	A	5807	1	355	
4929	12980	A	5808	81	474	LGERRRASLISLSLTGRRRGFKVATQERNPQRAQMRLARRQKKGVPFWGDFLTELQ/MGLDSAIPGRPVWMAUTPNKRSKEVRRVQEMOLLOVAAMNYRLRPLEKFVTYFTRMEQLSDKESYKLSCLEPENQ
4930	12981	A	5809	3	383	
4931	12982	A	581	1	691	MDQDSASTKTCPTGTHRKGSRPSREQIIGALGAANAHDTVRDGERYDRWSGPFRREQHGALGAANAPDTVRDGERSLRWDWRDCAEAATADVSGBRSLSRLLSARRLALAKAWPTVLQTGTRGVHFTVDGNKRAKVSIDSIAQYPVVDHEFDAAVVAGAGGAQURAAFGLSEAEFDTACVTKLFFTRSHTVAAGLENVGMPFSRTEDKJYQRAFGGQSLKFGKGRQA
4932	12983	A	5810	1	148	
4933	12984	A	5811	3	1219	PGAMATLSFVFLLLGAWSWPASASGQEFPWGQSAADILSGAASRRRYLLDVNPPEGFNLRRDVYIRIASLLKTLKTEEWVLLVLPWGRLYHWQSPDIHQRVRIPWSEFFDLPSLNKNIPVIEYEQFIAESGGFPIDQVYVLQSAYEGWKEGTWEEKVDERPCIDOLLYSQDKHEYYRGWFWGYEEETRGLNVSCLSVQGSASIVAPLLRNTSARSVMLDRAENLLHDHYGGKEYWDTDRSSMVFARHLREVGDEFRSRHLNSTDDADRIFQEDWMKMKVKLGSALGGPYLGVHLRRKDFIWGHRKVPSLEGAVRKIRSLMKTHRDLKVFWTAIVRKEYEELKKLLEMVRFEPTWEELELYKDGGVAIIDQWICAHASS*SAAGEPETSACAGGGTGRPLT
4934	12985	A	5812	75	130	IHRP*VPAAQGELRGAAE
4935	12986	A	5813	1	1940	MATLSFVFLLLGAWSWPASASGQEFPWGQSAADILSGAASRRRYLLDVNPPEGFNLRRDVYIRIASLLKTLKTEEWVLLVLPWGRLYHWQSPDIHQRVRIPWSEFFDLPSLNKNIPVIEYEQFIAQASLSHAASVSPFKCFSEMDLKWMSFPVPPQLEPPLRHKKAATPGCYSDRTRLPVRAVLRSGRRTACGVCFVVSQCSARDKELLRLDAPSRFVPAFEHQLIAIDLGGTVPPSWCGSGQSGGPFDQVYLQSYAEGWKEGTWEEKVDERPCIDQLLYSDQDKHEYYRCLLRLLPQGWRSQCQVSIAIKGSDITRPPVEKLSVNSLHVSARAAGSKAWQGSASIVAPLLRNTSARFERWDYSLQRVFSVGVDFRIDGVTFISHPWFCDRPADVFTRAACAGTCLQEQTQSLLTWDFVQTRRSMVFARHLREVGDDEFRSRHLNSTDDADRIFQEDWMKMKVKLGSALGGPYLGVHLRRKDFIWGHRODVPVLEGAVRKIRSLMKTHRDLKVFWATDAVRKEYEELKKLLEMVRFEPTWEELELYKDGGVAIIDQWICAHARFFIGTSVSTSFSDS*GKEKFLGLDPKTDVQQVLRPREGV

4936	12987A	5814	3	1286	PGAMATLSFVFLILLGAVSWPPASAGQE FWPQQSAADILSGAASRRRYLLDVNPP EGFNLRDVRYIRIASLKLTKTEEWVLV LPFWGRLYHWQSPDIDHQRIPWSEFFDL PSLNKNIPVIEYEQFAESGGPFIDQVVYL QSTAEGWKEGTWEEKVDERPCIDOLLY SQDKHEYRGGWFWGYYEETRGLNVSCLS VQGSASIVAPLLRNNTSARSVMLDRAEN LLHDHYGGKEYWDTRRSMVFARHLREV GDEFRSRHLNSTDDADRIPOEDWMKM KVKGSLGGPYLGVLHRRKDFWGI QDVPSELGAVRKIRSLMTHRLDKVFVA TDAVRKEYEELKLLPEMVRFEPPTWEEL ELYDGGAVIDQWICAHARCLPTSLSAE SGSGFQRFCPKYSVSEQMVACVHSGH FHTVCLLV
4937	12988C	5815	164	391	
4938	12989C	5816	321	341	MAALAS*
4939	12990A	5817	128	526	FFFFFKTASHSVVQAGVQWRSLSMQP PPPLKQFSHLSSLGSWKGHLPHPNSNC IFSDRGVSPCWLGWSQTPLGRQPSPKNC LGLTGCEATSPWPAKLFKNCVHFLPG VYVLLHVLGPRSKYLOKW
4940	12991A	5818	3	273	RRPRORPITDQTOWFSILPDSFLDLQEGPS VESQTSHSDPHIPPVDPITHLTNHLISVC VSLLTSLSPHLGSPCLWSPALVVSQAASH QDRR
4941	12992A	5819	1	861	MDSLALLGGVLRLRDSVEWEGRSILK ALVKKSALCGEQVHILGCEVSEEERFREG FDSIDINRLRVYHDFRDPLNWSKTEEAF PGGPLGALRAMCKRTDPVPTIALDLS WLLRLPCTTLQCVLHAVSHQDSCPFGDS SSVGKVSVLGLLHEELHGPGPVGALSSL AQTEVTLGTTMGQASAHLCCRPRPQRP NNYQTOWFSILPFDQPGSPRGALCRVPA LIPIPHPPKEREARDSSLILPQFSSEKQQA LLRPRPGQATSHIFYEPDAYDDLDQEDP DDDDLI
4942	12993A	582	306	458	IYIFLNCIFLIIIYFETECSVAQAGWV QWHDLGSLQALPPGFTPF
4943	12994A	5820	2	494	LGLLHEELHGPGPVGALISLAQTEVTLG GTMGQASAHLCCRPRQRPDTQRTQRSI LPDFSLDLQEGPSVESQYSPDPHIPVSK NAKARTRKCSLVSIGHRENKNSCRGWG WGQGF*GWGRVAASFVPAQVDPTITHLT NLHLSKKEREARDSSLILPQFSSEK
4944	12995A	5821	1	498	VRKVSVLGLLHEELJIGPGPVGALSSLQA TEATGGYHV/GQASAHLCCRPRQRP TDQTQWFSILPDSFLDLKEGPVSIESQYPS DHPHRDVPITHLTTFNLHESKKEREARD SSLILPQFSSEKQQALLRPRPGQATSHIF YEPDAYDDLDQEDPDDDLNLPGQI
4945	12996A	5822	3	322	HERQMALLKANKDLIPDGMTETTPLQK LGFDPVVCEQDQVVTAGQDWVTTYYDR DYQQQVTGEFPQERDKALQELRQEINTL ANPLAKYRDFLKSJIELPSHPPSS
4946	12997A	5823	3	276	
4947	12998A	5824	151	204	SGEPF1SCGRFWLQLDG/DLMTPLRLVS NSWLKQSSHLLGLLKIHWDYMSAEPHLAK NFLKAYEVVSLSFHVEGSGGCRMA
4948	12999A	5825	175	456	IHFVLISAHAVGCEGILWGGWSLRGVGV PHSSAKRS*VGIRGPKGGRPGAQLPAGR ARASTEVPSGACPPLLGAKNDRGLHAP KRTGTGPSNH

4949	13000	A	5826	188	269	IHFVLISAHAVGCEGIESPIEEMGVSA SIO EACSPGLQWATFSLASAWVSA PLLQMA HICPII LLGSLK GARATN RFRQS LFLVQGV SFPARFPHLD LLLQ** KNWD TVSHLE QRGTNP G+RQE* SGPLQPWRAGFLD QC
4950	13001	A	5827	1	542	
4951	13002	A	5828	2	889	RGLRIPTWAIQELAGRVT RRGPETGEGR REPGGSASPMR AAPPAGGAGGSVEPPSA RPAPQAGTA ARSEEA PARQAAGMAG PGWGPPRLDG FILT ERLGS GT YATVYKA YAKKD TREVVA I A C V A K S L N K A S V E N L L T E I L K G I R H P H I V Q L K D P Q W D S D N I Y L I M E F C A G G D L S R F I H T R R I L P E K V A R V F V M Q L A S A L Q F L H E R N I S H L D L K P Q N U L I S S L E K P H L K L A D F G F V A O H M S P W D E K H V L R G S P L Y M A P E M V C O R Q Y D A R V D L W S M G V I L Y G E T S F P C F S P
4952	13003	A	5829	297	331	
4953	13004	A	583	47	358	SLTLPVSPVPACPCPSKSE SV PQEH PLP CRPLFRV W R N R Q S R G C P Q V E H Y G A G A W G L L P V W K S C P A K T C K W G L P /C P C G R S C L H S G /G A A C L L C G G S A
4954	13005	A	5830	3	405	
4955	13006	A	5831	3	408	
4956	13007	A	5832	1	530	
4957	13008	A	5833	198	1175	RANPFRMGNHAGKRELNA EAK STN SET NR GE SE K K R N L G E L S R T T S E D N E V F G E A D A N Q N Q G T A V T D S K R T A D P K N A W Q D A H P A D P G S R P H L J R L F S R D A P G R E D N T F K D R P S E D S E L A T S E L D V M A S Q K R P S Q R H G S K Y L A T A S T M D H A R H G F L P R H R D T G L D S I G R F P G G D R G A P K R G K R L T P P K N C S L R V P A P E V T R P D P R
4958	13009	A	5834	1	651	MGNHAGKRELNA EAK STN SET NR GE SE K K R N L G E L S R T T S E D N E V F G E A D A N Q N Q G T A V T D S K R T A D P K N A W Q D A H P A D P G S R P H L J R L F S R D A P G R E D N T F K D R P S E D S E L A T S E L D V M A S Q K R P S Q R H G S K Y L A T A S T M D H A R H G F L P R H R D T G L D S I G R F P G G D R G A P K R G K R L T P P K N C S L R V P A P E V T R P D P R
4959	13010	A	5835	3	208	
4960	13011	A	5836	71	394	APSARDVSRCAHRARP GAIM LLL PSA AD G R G T A I T H A L T S E I E D K K E S E E D E E L Q L E E F P M L K T L D P K D W K N Q D H Y A V L G L G H V R Y K A T Q R Q I K A A R K Y L V I L K

4961	13012A	5837	146	1910	APSARDVSRCAHARPGAIMLLLPSAAD GRGTIAHALTSASTLCQV/EPV/GRWFEA FVKRRNRNASASFQELEDKKELESESSQD EELQLEERAMILKTLDPRDWKNQDHYAV LGLGHVRYKATQRQJKAHHAMVLKH HPDKRKAAGEPIKEGNDNYFTCITKAYE MLS'DPVKRRAFNPSDPTFDNSVPSKSEA KDNPFFEVTPVFERNSRWSNKNVPLKG DMNSSFEDVDIFYSFWYNPDSWREFSYL DEEKEKEACRDERR WIEKQNQGATRAQ RKKEEMNRIRTLVDNA YSCDPRIKKFKE EEKKEAEKKAAEAKRKEQEAKKEQ RQAELEARLAKEEEEVRQQALLAK KEKDIQKKAICKKERQKLNRNSCKTAKDV IRKEEEAEARMRQASKNTEKSTGGG NGSKNWSEDDLQLLKAVNLPPARTNSR WEVIANYMNMIHSSSGVKRTAKDV SLQKLDPHQKDDINNKKAFDKFKKEHG VPQADNATPSERFEGPYTDFTPWTTIEQ KLLEQALKTYPVNTPERWEKIAAVPGR TKKDCMKRYKEL VEMVAKKAAQEQU LNASRAKK
4962	13013A	5838	1	1909	DVSRCARHARPGAIMLLLPSAADGRGTA ITHALTSASTLCQV/EPV/GRWFEA/PVKRR NRNASASFQELEDKKELESEDEELQLE EPPMLKTLDPKDWNQDHYAV/LGLGH VRVYKATQRQJKAHHAMVLKH KAAGEPIKEGNDNYFTCITKAYEMLS'DP VKRRAFNPSDPTFDNSVPSKSEA/DNFF EVFTPVFERNSRWSNKNVPLGDMMNS SFEDVDIFYSFWYNPDSWREFSYLDEE KEKEACRDERR WIEKQNQGATRAQ EMNIRRTLVDNAYSCDPRIKKFKEEEEKA KKEAEKKAAEAKRKEQEAKKEQ RQAELEARLAKEEEEVRQQALLAK KEKDIQKKAICKKERQKLNRNSCKTWNHFS NEAERVKMMEEVEKLDRLELASLQLCLNET LTSTCKEV GKAALEKOJEEINEQIRKEKE EAEARMRQASKNTEKSTGGGNGS WSSEDDLOLLIKAVNLFPAGTN WEVIA NYMNIHSSSGVKRTAKDV GAKSLQKL DPHQKDDINNKKAFDKFKKEHG VPQADNATPSERFEGPYTDFTPW TTEEQKLLEQ ALKTYPVNTPERWEKIAAVPGR TKKDCMKRYKEL VEMVAKKAAQEQU LNASRAKK
4963	13014A	584	1248	1667	TNTGGWGPRIHAFVQHTLELLSSLCLNC GFLVPPFLSWTVMYGSVNLNVNLLKYG FGQIVVFFYYCVIKKKIWIWLCLPRPRV WLPSTSPLRSRSPSSMVNLNQICRV SATAK RGSVTGSWAYPCVLSRGMMSELCS RGA
4964	13015A	5840	3	231	SFETESTCSVAHPGAQWCDISSLPPP SSDCPASASRVAGITGT HHHAWP IFV VETGFHCLPQPPIVLGLQA
4965	13016A	5841	2	300	RRRLALSPAGVHWHLGLGSLOPPPPWFER FSCLLGSGWDCRRAPPRPASFFVFLVET GFRHVGDGLDFLTS/GDPPALASQGA WIAGVSUHRTRPQIIFF
4966	13017A	5842	227	290	
4967	13018A	5843	1	225	HCFNPLPQVAILGSNSRASASRVAGTTG ALQHMQLIFCILVETGFHRV AQAGLDLL SUTJHPPRPPKVLGLQA
4968	13019A	5844	3	147	LEIFFFFFFSFTIF/CRWGLTMFIRLVLNF W PQMILLPLPLPPKV LGLQA
4969	13020B	5845	47	241	GGKDFNMPMTISIRITPGSKAAQS QLSQG DLVVAIDGVNTDMTHILEAQNK IJKSASY NLSLTQK*

4970	13021A	5846	3	408	CGGIPSPQATIFTLTLISSVTSLNSTSFSSTK VHTLSQLNYVFREPLKLTFLTL*ASAFA IAISN*SRT*RASWGVIC*DCMSSRUPPE DCFP*YFCITDMPWLRKKNUFFSTFQS CRF*GTPIJCQKDJKTSS
4971	13022A	5847	1	2209	AAADSTSMSYSVTLTGPGPWGRFLQGG KDFNMPLTISIRTPGSKAAQSLSQGDLV VAIDGVNTDTMTHLEAQNKIKSASYNLS LTLQSKSRKPFIISTTAPVQTPLPVIPHOK DPALDTNGSLVAPSPEARASPGTPGTP ELRPTSPAFSRPSAFSSLAEASDPGPRA SLRAKTSPEGARDLIGPKALPGSSQPRQ YNNPIGLYSAETLREMAQMYQMSLRGK ASGVGLPGGSILPIKDLAVDASAPVYQAV IKSQNKPEDEADEWARSSNLQSRSPFLIL AQMTGTEFMQDPDEEALRRSSTPIEHAP VCTSQAATPLLPASAQOPPAAASPSAAPP LATAAHTAJASASTTAPASSADSPRPQ ASSYSPAVAASSAPATHTSYSEGPAAP KPRVVTTASIRPSVYQPVPASTVSPSPGA NYSPTPYTPSPAPAYTSPAPAYTSPSPVPT YTSPAPAYTSPAPANYNPAPSVAYSGGP AEFASRPPWVTDDSFQSFKAFPGKSTTSIS KQLTPRGCPAYTPAGQPQVPPPLARGTVQR AERFPASSRRTLPGCHCNCNVIRGPFLVAM GRSWHPPEEFTCAYCCKTSLADVCFCVEEQN NVYERCYEOFAPLCAKCNTKIMGEV MHALRQTWHTTCFVCAACKKPGNSLF HMDGEPYCEKDYINLFSTKCHCCHUP VEAGDKVIEALGHWHDTCTFCAVCHV NLWEQPFYPSKDKDRPLCKKAHTNL
4972	13023A	5848	I	537	RTRGGDVKTDLNNIEELEETLTPEKYPI LAALKHREYNTEDIDIFYKFSAIYIKNTKQQ NNAALERGLTKALKKVDDYLNTPLPQE RDAYTCGEDKGTRRKFLDQDELVTLAD CNLALPKLHVVKIVGKKYRNHYFADMT GLWRYLEKNAYARDEFNTCAADSEIEL AYADVAKRLLRS
4973	13024A	5849	1	654	WEGETCSMCKVIGHINACEEAPLHSVPH GQKTELNNCISMILVAANDRVHTIIQLE DSRVRTKENSHHVNRULKSQKFDTLYAIL DEKKSELLLRISQEQQEKKLIFIEALIQQYQ EQLDKSTKLVETAIQSLDEPGGATFLLT KQLKSIIVEASKGCQLGKTEQQGFENMDF FTLDEHIADALRAIDFGTDEEEEFIEEE DQEEESTEGKEEHQ
4974	13025A	585	334	696	IKPEMEAGISVTLGLDRNTRVQVGCREL RSTKYISGWACSTSIQPSREL/VCVVG CULPLVPPVNWIGGGYGTQKYWSRSSQ EWA/CSMDKTRYPEDSQLQQCDGSTRT YKITVSSL/PAS
4975	13026A	5850	141	626	LLWILIAAPPPPPPVIERNAGRCSPSPTTIP NAWGQEPPRPRERPPPPPSRDAAGATPS FLPPLLNGHRSIHHCSCGLCLLDFFESK YSFHPVEDFPAPAEYYKHFSEDYPSKTNR AARGAPPLPILQVKPGLVPFLIKRMDL LFFSYGPLHSSELLHDSS
4976	13027B	5851	23	160	MQHVCAMRQVDIDAYTICLYASGTTPV PQLPLLMAILGLCTLVL*

4977	13028	A	5852	221	1645	APRMRLLAWLFLANWGGARAEPGKF WHIADLHLDPUDYKVS KDPFQIVCQSAGS QPRGPTQAPWGODYLCDSPAWALINSSIY AMKEIEPEPDFILWTGDDIPHVVPDEKLG EAAVLEIVERLTKLREVFPTDVYAAV ALG NHDFHPKNOFPAGSNINYQNAELWKP WLSNESIALFKKGAFYCEKLPGPSSAGRI VV LNTNLYYTSA NALTADMADPGQQFQ WLEDVLT DASKAGDMVYVGHVPPGFF EKTQNKA WREGFNGNEKYLKVRKHRV IAGQFGHHHTDSFRMLYD YAGV SISA MFITGVYFWRITLPGV VNGANGNPAIRV FEYDRATLSLKDMVTYFMNL SQANAOG 1PRWELEYQLTEAHGVPHATAHSMHT VLGRNVGDKSTLQR YVYNSVSY SAG VCD EACISMQHVCAMRQVDIDATTICL YAS GTTA V PQLPILLMALLGCLCTR AV TCQAHHSW
4978	13029	A	5853	3	126	AVGDSMCAKCVSDRIKHAFFIKEQKIJV KVKAQAGSQKAK
4979	13030	C	5854	306	386	MFLKAIWGGSDSWSREAACP LNCLN*
4980	13031	A	5855	709	1199	AGVGVRGTTGRLVVRKF TLIFGNPLFL VAPPKPHSEWSORLTYRRRSPSYNTAL* QK/RRHRSHNQIPPRIVYLLYPRRLGKHP NSACGVCPRQEFEVGRAVRPKVULMRL SKTKKHVSRAVGSNSVCLNVRDRIKR AFLNÆEQKJIVVKVILKAQ/AQSOKA
4981	13032	A	5856	1	219	HRYGYLLFNLFVEVISSEQSVLAPPVR* T CIVANLRGVGDPPDTSRHCAQGLGFKL LYSLVGSESWGARA
4982	13033	A	5857	112	312	LCTVCLWLAKAGVGP EPERLIY SVPVFV *H A V C A G I A D G G S F S S K V R C L E I H F Y T G ISIKMFLYIK
4983	13034	C	5858	133	237	MFDIXXXXXXGGRFKGS LGGPKFT RAC KVKFSSL*
4984	13035	C	5859	61	177	MRIHKRLIDLHSPSEIVKQITSISIEPGVEV EV TIADA*
4985	13036	A	586	258	382	
4986	13037	C	5860	100	153	MSPPKS KGPFP RFP GRF*
4987	13038	C	5861	142	195	MSPPQS KGPFP KFP GRF*
4988	13039	A	5862	11	90	
4989	13040	A	5863	3	759	TVPLEVVLLRKVGAA GARGVIRLLDW FERPDGFLLVLERPEPAQDLDFDFTTERGA LDEPLARRFAQVLA VRHCHSCGVVH RDIKDENLLA VLRSGELKLIDFGSG ALL MDTVYTD F D G T R V Y S P P E W I R Y H R Y H G RSDTVW S L G V L L Y D M V C G D I P F E Q D E E I L R G R L L F R E R V S P E C Q Q L I R W C L S L R P S E RPSLDQIAAHWMLGADGGAPEQ/DCDL RLCTLD PDDVASTTSSSETLLRSLH LTGS
4990	13041	A	5864	1	422	
4991	13042	A	5865	2	435	I LAEFGSLHLEFLHLT ELSGNQVFAEKVR NIRKVLRKIEKPFGLYPNFLSPVSGNVW QH HVSVGGLGDSFY E Y L K S W L M S G K T DMEA K NMYYEALET/HKLGP EAFWFNS GREAVATQLSESYI LRPEV VESYMYLW RQTHNTK
4992	13043	A	5866	1	837	
4993	13044	A	5867	1	415	T KLGPEAFWFNS GREAVATQLSESYI L RPEV VESYMYLW RQTHNP IY RIEWGW E VVLALEK YCRTEAGFS QI QDVY SSTP NH DNKQ QSFLLAETLKLYL LFS IEDD LSL EDWV FNTEAHPLPVNHS DS G RAGGRH

4994	13045	A	5868	1	1187	ESFHLNVSGEASLPEVNIRYIGGLLSAFYLTGEEVFRKAIRGEKLLPAFTNPTGIPKGVNSFKSGNWGWATAGSSILAEFGSLHLEFLHLTELSGNQVFAEKVRNIRKVPQVSFEKPPGLYPNIFLSPVSGNWWQHHSVSGFGLGDSFYELIKSWLMSAKTDLEAKNMYYG(APLEAIETYLLNVSPPGLTYIAEWRGILDHKMKGHLACFSGGMIALGAEDAKEEKRAHYRELAVQITKTCYESYARSDTKLGPEAFWFNSGREAVATQLSEE/YTYILRPFVVESEYMLWQRQTHNFSYREWGWEVVLALEKYCRTEAGPSGDSTCYSRHQPRKTSRSQFFLAETLNRLCLVSACNGPD'TGLEARDTAESETVISPAVKGSRGEKAMVRETD
4995	13046	A	5869	1	1561	MIFVVIIIMVVLSPEDGSGLDSSPFLSEA NAERIVQTLCITVGRGAALKPYPTGPFR YSHGVPPHLFAVYFPFGSTVSDQNSFISPC LQHIFERVRQSADFMPPRWQMRLRVLEEL GRDWQAKVASLEEVPFAAAISGQVHQG LLRDGTEAVAKIQYGPQIAQSISQDVQNL AVLKMSAALPAGI.FAEQSLQALQQELA WECDYREAAACAGNFRQLLANDPFFRV PAVVKELCTTRVLGMELAGGVPLDQQC GLSQDQRNQICFQLLTLCLRELFFRPMQ TDPNWANFLYDASHQVTLIDPGASREF GIEFTDHIEVVKAAADGDRDCV1LQKS RDLKFLTGFEKTAKSDAHVEAVMILGEP FATQQPYDFGSCETARRIQDLPV1LRH RLVSPYPEGDLWPWHRKLVLAGAFLACAH LRDHACRDHCKPGHLPLLGQSPARSH CRQPHQRGTGPWIPHDLSHGGSPQCSR PPYAVVPLIPSPSALGGQRSPGLGPLSLAWL SSLAPKTQESLGLGNSP
4996	13047	A	587	1637	1832	VSTRCGTHPPVCLAEFVKRLRYCEYLG KYPDCCHSYAESCIPIARILMMWDFFKK YVVSNFNSKTA
4997	13048	A	5870	1	1532	MPQALERADGSWAHHVLLATMVTQGL TLGPTCIGIPFTELQWEFQASNSETSWP SILTAVLHMAGPLCSILVGRFGRVTVM LGGVLAJSLGMVASSFSHNLSQLYFTAGF ITGLGMCFSFQSSITVLGFYFVRRRLAN ALASMGVSLGITLWPLLSKRYLLENGLWR GTFLVFGIGIFLHCCICGAIIRPVATSVAPE TKECPPPPETPALGCLAAACGRTIQHRILA FDILRHNTGYCVVILGVMWSVLFGLPLPQ VFLVPYAMWHSVDEQQAALLSIIIGFSNI FLRPLAGLMAGRPAFASHRKYLFLSLALL LNLGLTNLVCASAQDFWVLVGCLAYSV SMSGIGALIFQVLMIDIVMDQFPRALGLF TVLDGLAFLISPLAGLLLDATNNF'DVF OQCFSFP*SKAPLLKGGSFPPPQKKEQ GKQAVAADALERLDIFLEAKDGPQKQR SPEIMCQSSRQPRPAGVNKHLWGPAS SRSTHEWLFWPKAVLQAKQTALGWNSP T
4998	13049	A	5871	946	1279	QTELGVRFPFTLPLLGSARGCSCFVRVLF VDFRVQPGFRKENLQIQLDFMFNRQCSS RQPRPAGVNKHLWGMSCP/ASRDPAMK WLLWPKAVALQAKQTALGWNSPLECP V
4999	13050	A	5872	3	297	ESCSVTTQAGVHW/CNLGSLQPSPPDSSD SPSSVSRVAGITGMCHHAQLIYFVVEYTG FHIGEAGLCLRLPKCWDRYCEPPRLHL GLQLNFTYKDRCCLA

5000	13051	A	5873	276	880 KADSEQHQGEAKRRYSSSLAKKEVSKAPE DKKKRLEDDDKRKEDKERKKDEEVK VAEESKKKEEEKKKHQEERKKQEQA KRQQKEA AAAHMKKEEESIQLHQEAWE RHHLKKECLCSKNQNAPGRPKENFPSRL DSSLKKNATAFKKLKTIPQRDLSHD FNGNLNLSKYIAEAVASIVEALKLKISDVNC AVHLC
5001	13052	A	5874	2	619 LDLDLFNAIIIVTSLAPFFQDCMSENALH ELNIELLRNKLYKSYLEAFYKFCKNHGDT VTAEVVMCPILEFEADRRAFIITLNSPGTEL GOEDRETLVYNLQGLLSEGULALAQAED DFDQMKNVADHYGVYKPLFEAVGGIGG KTLLEDVYFREVQMNVLAFNRQFHGYGV FYAYVKLKEQEIRNIVWIAECISQRHR/TK INSYIPIL
5002	13053	A	5875	1842	2306 GPRRLAAFLTSAGDGVYTRPVVFIIDCT ATFHREDAYRLPFPTNHHTASPVE*VPP HPIILGALOLQPGDPSPHDIHSIGTPNSNADA PKAGGCKWTQTRSVPNSALGRKGSTH LPRITYFTLALPETKLSNCPPKAPPGLEH TSLAWLGTD
5003	13054	A	5876	301	471
5004	13055	A	5877	269	394
5005	13056	A	5878	524	604
5006	13057	A	5879	187	401 VSCPGBNSPLGSSASGASSLNFLPSVPV R*SVSGLNLRVPAMARAVTISGDVTKA WVSFGASLRPVKFLL
5007	13058	A	588	1	856 MRSMSMTLTIFHSERIILRNROPPPKESWE DIEDFGETHLDFLKQYGFENGIPV/HDTI ARVVSCISPASFHECFINWMRDCHSSND KDVIAIDGKTLRHSYDKSRRGAHH/visa FSTMHSLVIQOKITDKSNETIAPELLN MLDIKGKJTTTADAMVNClVKTGVFAING DORVAEPDSGALCQVRYPGNHRNDQRY LFRHSDSELLHWMVALDAAVKRVKCL WMSLHKVYSCIPELPOPESAGHSGSQ YA*CNTRPHGQKPGTAGPSGSVWRIT SV
5008	13059	A	5880	667	888 AHTVHIRRSASRLPAGPASRLVDLSH*DL GHVP/AGFFLIMNVIQEQEGLADLSTS AHL LGAPLVKGSRPHAWADAW
5009	13060	A	5881	1	163 GLVDESFDVTSPGTPSSADATSVRAAK KRAPYTLVGSISEPGLGLISWWTSN
5010	13061	A	5882	183	426
5011	13062	A	5883	1	1152 MHNSDGIEVMRQQKAEIGRVRGGLEGSQL GVTEIVVNGARMLESYNCNAELGATGL VNQISVKCSNQFKLEVYLLNAENKVV DNQAGTQGQLKVGLGTNLWWPYLMHEH PAYLTSWERPDGAQAVGALTPTGLAV/EVWLTAQKSLGP/SDFYTLPVGLRTVA/AV TESQFLISGKPFYHFVGVNKHEDADIQGK GFNWPLLVKDFNLCWLGANFTCTSHY PYTEEMLIQCYRYGIIVVIDECPAPSHT/ GPSVPSLLARWOLENNVSMHHHMWWV EEPVLRDKNHPAMVMWSLAKEPASFLE SAGYSFKSLTMEQTARVLDLDTGEAVLQ YRSLPRAHJKTLGKRRKISSYNVDLTSC QLAKEKCLKGPSFLQSRQERRMNSERD N
5012	13063	A	5884	401	882 CTNTPPPTWTRGRMVTIAHTKALDPSQVTF VTNTVYIADKGALXWDVTPLNSYYSG YRNHYGHIELNQLQLAQFENWCKTSQ SHYSERVWSGNAL*GHQDPPLMFQ*RG PGKVLLEQYHGLDQKRKYVVGEIJW NFADFMTNQCVSFLVGNENSANL

5013	13064	A	5885	197		1184	ETSHOVMDRSNPVKPALDYFLNRVLVNYQISVKCSNQFKLEVCCLLNAENKVVNDQA GTQGQLKVLGANLWWPYLMHEHPASLYSWEGRPDGQAQVGALTPGALAVIEVR LTAQKSLGP/SDFYTLPGRTVPVTESEQWALYDVIRVNSYYSWVRYNGHLELIQ LQLPAQFENWCKTSOSHYSERVWSGNAYRVSPGGGNLPHALPCCSQNLALPTESP GTVVISLALSILIGI.WAQETGVLFIVVSODPPLMFSSEYQKSLLEOYHGLDQKRKY VVGELIWNFAFDPMTNQCKWQFSAWDN VPVLIFSGCLAHSGHFGCKNGNKGKL V
5014	13065	A	5886	1		657	
5015	13066	A	5887	76		614	VCOYCTARMADFGISAGQFVAVVWDKS SPVEALKGLVDKLQAFATGNEGRVSVENIKQLQCLVPGSTNLHSIAEJELA EJAIARILRGPGICLFLKEPVETAVDNNSKVKTASKL CSALTLSVGLVEVKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPNFEVGSRRQLKLSITK KSFSVVKP/AVDPAAAKLAWTLSANDMED DSMCIFCCGSLTHRWPLEHVVRLLMMI NQKEDRVDTFTLSDSKPFLPEACSHFSFL AETTTVSLIAINTLQDLDISDELLDPEDL KKPDPAASLRRAASCCEGKKRKACKNCTC GLAEELKEKSREQMSSQPKSACGNCYLGDAFCASC CPYLGMMPAFKPGAEKVLLSDSNLHD
5016	13067	A	5888	102		1292	ACQYCTARIVDFEISAGQFVA*VWDKSS PVEALKGLVDKLQAFATGNEGRVSVENIKQLQCLVPGSTNLHSIAEJELA EJAIARILRGPGICLFLKEPVETAVDNNSKVKTASKL CSALTLSVGLVEVKELQREPLTPEEVQSV REHLGHESDNLLFVQITGKKPNFEVGSRRQLKLSITK KSFSVVKP/AVDPAAAKLAWTLSANDMED DSMCIFCCGSLTHRWPLEHVVRLLMMI NQKEDRVDTFTLSDSKPFLPEACSHFSFL AETTTVSLIAINTLQDLDISDELLDPEDL KKPDPAASLRRAASCCEGKKRKACKNCTC GLAEELKEKSREQMSSQPKSACGNCYLGDAFCASC CPYLGMMPAFKPGAEKVLLSDSNLHD
5017	13068	A	5889	1		747	MGRFYVQAQAGLELLSSDPSIPSSKTLOEQ NDQSYSPSTLPVFPFEVALHTLLWGEDANN SKVKELQREPLTPEIEQSVRREHLGHESDN LLFVQITGKKPNFEVGSRRQLKLSITK SPSVKPAVDPAAAALKWTLSANDMEDDS MDLIDSDELDDPEDLKDPDPSLRAVAS CGEGKKRKACKNCTCGLAEELAEKEKS EQMSSQPKSACGNCYRGAMPSCGACSCP YLGMPAFKPGEKVLLSDSNLHD
5018	13069	A	589	148		333	
5019	13070	A	5890	2		152	YRHMAPHPTNFLKK/FFCRDGGVLMLPR LVFNNSWPQGILLPPQPKVLLGQV
5020	13071	A	5891	1		581	EKQSCKSCGETFSNTKERRHHCKLCGA V1CGKCESEKAENSRSQSVCRDCFLTQPVA PESTEKTPADPQPSLLCGPRLRSLSKSGET WSEVWAAIPMSYPQVLLHQGGSQDGR PRTIPLPSCKLSPVDPERLDSGHVWKLQ WAKQSWSYLASSAELQQOWLETLS HGDTAQDPSIGALQLOVPMGAAP
5021	13072	A	5894	1		303	PCGARQCCGGPPRL/CSSRRTSQELSK PVPPPAQPGPASRVGRGVSGLSPAWN GERQHHRGVVLTHPQSPNHQAGSPNP TRQALATLSPVNPKFIE
5022	13073	A	5895	1		284	ATESCSVAVQVGVQWCDLSSLQGAPP GFTPSSLLOGSDYRSPPPPBPANFFVV /MASASQSAGITGVSHRTRPRIAJNL TNQGSVDED
5023	13074	A	5896	3		338	GIHWGWSGGYLSLALMQRSDIFRVAIA GAPVTLWIFYDTGYTERYMGHDPDN QEYLYLGSVAMQAEPKPS/EIYPQERHSIR PESGEHYELHLLHYLQENLGSRIAALKVI
5024	13075	A	5897	1		1200	

5025	13076	A	5898	2	594	NRGSCHRGGLKPEGAFKYKMGQIEDDOV EGULQYLASRYDFIILDLRVGHGWSYGG YLSLMLMQRSDIFRVAIAAGAPVTWLWIF YDTGYTERYMGHPDQNSEQYLYGSVA MQAEKFPSEPNRLILLHHGFLDENVHFAH TSILLSFLVRAGKQYDLQIYPERHSIRV PESGAEHYELHLLHYLQENLGSRIAALKV 1
5026	13077	A	5899	74	248	KTLMWMVNRTVLAGICSQQQLSAGTATDV SKHRLQGFIICRIPS/ASPPQTQRKFSLQFH RNC
5027	13078	A	59	582	1303	GCASRAGLWLLQQGLLGPRYQLSEDGV SWSCWHOPGLSPQSLWARTELSSPDITQS GEDRKTSFVGHQPTALGGLQOSIESLMS SEAEETERRCTWMQSLSETNRTLFLFGVT KYTAGPYECEIWNSGSAERSDPVILNL IIGDALTISSSYTYHITGEVPKLSCLDT HPLAHSWLLGGKFQQAQVFIPQITKT YRGVVVCFIHNSATGGTNLIKRJIVPDHS LRSALSLEVGTG
5028	13079	A	590	311	576	
5029	13080	A	5900	258	552	CMVFDH/VSGACCCNGETTGKISGGGNQ LGSSPIGGNPNS/GSSQSTSISGDVVVEACC SVLSMVCADPVYKVYVAALLERELPG VFSGKIFNLLSDCLLW
5030	13081	A	5901	1	1660	
5031	13082	A	5902	1	1947	MALRRLSHDVSGALLANGESTGNSGG SSGGSPSGGATGSQSTSISGDVVVEACCS VLSMVCADPVYKVYVAALUQCMLLVTIL EDPSSHFTMRRLM/AYADEVEIAEAIQ LGVEDTLGQQDSFICRHLFPTTIWKPQR TVP/LECTIILEKTGKGLCATKLSASSED SERLASISVGPSSTTTTIEQPQPKPMVQ TKGRPHSQCLNSSLPLSHHSQQLMPALSTP SSTSPPVAGTATDVSKHRLQGFIICRIPS ASPTOTQRKFKSLQHNRNCPENKDSDKLSP VFTQSRLPSSNIIHRPKPSRPTPGNTSKQ GDPSKNSMTLDLNSSKCDSSFGCSSNS S/NCCYTISDETVFIPVEEKCRLDVNTTEL NSIEDILLEASMPSSDTTFTKSEAVALS PEKAENDDTYKDDDVNVHNQCKEKEMEA EEEEEALAJAMAMSASODALPVQPOLQVE NGEDIIIIQODMTFRHIIPIQWYIKKESA NLLIDSTGQRRLRIADFGAARLASKGTTG AGEFPQGQLLGTIAFMAPEVLRGQYQGRS CDVWSVGCALIEMACAKPPWNAAEKHSN HLALIFKKLLDFANTACDGKESAEVEDV ETDSGNSPEDIKREIMIGLOQYQAEIPPYL GEYDGNEKDSPQPKKMTGVQNAKEVLS T
5032	13083	A	5903	1	4491	PSPEAGGGGGALKASSARAAAAGLIRE AGSGGRERADWRRQLRKVRSELVDQL PEQPLFLAASPPASSTSPSPPEADAAGSG TGFOPVAVPPPHGAASRRGAHLTESVAA PDSGASSPAAAEFPGEKRAPAAEESPAA PAGREMEMKETLKGLHKMDDRPEERM REKLKATCMPAWKHEWLERRNRGPV VVKIPVKGDGSEMNHLLAESPGEVOAS AASPASKGRRSRSPGNSPSGRIVKSESPG VRKRV
5033	13084	A	5904	1940	2062	
5034	13085	A	5905	785	892	
5035	13086	A	5906	1	2745	
5036	13087	A	5907	1	3297	
5037	13088	A	5908	1	2202	
5038	13089	A	5909	1	2868	

5039	13090	A	591	279	602	FFLSEILSVSLTFIISNNYVSQVINSLAVY RIRRETDFGVGVFRDHPGQ/PWQNPISHIEK LDNLIIJIGFLRRYTIFNIFCSTCLCVSILT FCRGILVITNKNKLYTK
5040	13091	A	5910	1	3237	
5041	13092	A	5911	1	2001	
5042	13093	A	5912	1	2982	
5043	13094	A	5913	1169	3269	VHCRFWILALCQMSRLQKSPPLFNVILE VLAKAIIQEKEIKGIGLKEEVKLSLFAD DMIVYLENPTVSQANILKLMNSNFVKVSG YKINVQKSQAFLYTNNRQTESQIMSGLP FITTSKRITYLGQLTRDVKDLFKENYKP LLKEIKEDTNKWNKPCSWGGRINLVK MAILPVIYRFNAIPKLPMTFTTELEKTT LKFIWNOQRALIAKSSLQSKNKTGGITLP DFKLYYKATVTKTWSWWYQNRIDQW NRTEPEIMPHINYNLIFDKPDKNQWG KDSLFBNCWENWLAICRKI.KLDPFLT PYTKINSWKDLHVRPKTAKTLEENLGN TIDQIGMKGKDFMSKTPKAMATKAKIDK WDLIKLKSFTCAKETTIRVNPOTEWEKI FATYSSDKGLISRIYNELKQFYKKTNNP KKWAKDMMNRHFSEEDDIYAAKKUIMKKC SSSLAIREMQIKTTMRYHLLTPVRMVIIKK SGNNRCWRGCGEIGTLLHCCWWDCKLV QPLWKSTWQFLRDLBLEIPFDPAIPLLGI YPEDYKPCCYKDTCRMFIALLFTIAKT WNOPKCPPTMIDGIKKMWHIYTMEYYAA IKKDEFMSFAGTWMLKETIILRRLQLSQGQ KTKHIRMYSLIGGNTMRTFGHSAGSHH TPGPIMRCGAGGGIALLGEIPNWNDELMG TANOHGTCIPMQQNCTLCTCTLKLKV
5044	13095	A	5914	2821	5794	
5045	13096	A	5915	457	651	
5046	13097	A	5916	3	637	KGDHVVKHYKIRKLNDNGYYITTRAQFET LQLVQHYHYSERAAGLCLCRVVPCHKG PRLTDSLVIKTDVWEIPRESLQLIKRLGN GQFGEVWNGTWNGNTKVAIKTLKPGT MSPESFLEEAQIMKKLKHDKLVLQYAV VSBEPYIVTEYMNKGSLLDFLKDGEGR ALKLPNLVDMAAQVAAGMAYIERMNYI HRDLRSANILVGNGLUCK

5047	13098	A	5917	1	2523	MHWKRPWQVGGYLTLAATDFTVQMLNY MSVRQLSYLNFPNTWQFLSWSQMPTTQQ AYPCVTHTHTPPVLGQMACCISNQRRTA ALIGTRGRPERNVHVNLRQGFVVNAHEP WVNEKVVARQEPEADRGAVNRAWGFS PRLIHWSSEGQPAAALQDRDPRWLWYTH AAALSGHAAALSALSLAPSRSALAVLIALL PAAQLHHIIIVPRSKACDIAYVGHRQQV WYQEDGQQILVVPVLLSTTQQKVSAL WADRLEVRALLARSALAARLAPPSPVHPCW VVTFFPSAVAWINAGSLLDFLDGEGRGA LKLRLNLDVMAAOVAAGMAYIERMYIYH RDLRSANILMNGNLICKIADEFGARLIED NEYATARQDPTRSRGRHRSAMNPYGSRA GRGRVESGLTQMAATQTVQWSAHLV SGEAVAWNTPPTANQDRKELAALSCSCP STLCFMLLGLYPTLDHLQVRQSCHLTVS CAWQGLKPLFLWLAINKAFFECLTLKY WQADCELLASAYQHAWITCARTOSNSL SIADIESLELVVKTTFPHQKKIFGLTSYSG MFVGTWNGNTKVAITLKGTMSPESFL EEAQIMKLLHDKLVLQLYAVVSEEPHYI VTEYMNKGDEGTIREEIQGVKAPRDRN IPKPSAAHAQQLVMWHEVRLTRALCPF WGWLDSWHHFCVLEHPTPHPLTQPKKG KELTDVVIRHSQFSGAQSRVSEWIWRSRM TKTPGAKLQKQAYQGVSNPNNIIHHTQTQ QLKAIVPHPLMEADDAIDGYRKILVNFTKI YSAFAVTNSDYEWQPTLVAICYRCGDD QTERRTQKPPTEVTTLQLQPQFWLLRG HVGVLVLDHPFKEKP
5048	13099	A	5918	74	1002	SNESENVALSTVERTARRDAPQHGTQPR GLPNSSEPHAPAQRTAATGKARQRKRTTA SAGAREGRRLLAGTSIPGPFSAVPVHR HRPQEPORGPTPRRAEKRDQMASHV ECRPLGVFECELCCTLTAPYSYVQKQPPN TQSMVLLIESYVNMKDPTFSDKDRLVFLG SCCSLCSRLVCVGPGVRMVEVQHGHFHSV PSVLRVTPESEKSLSIICRLLHTKGSINS QDDEMCGQGRSLSRSVAWEYLRLMEELV VOEKLKGKEDCKGN SARLGEKESSIKEPD OPARFDGPGLSECSDVTERDDLQQG SS
5049	13100	A	5919	3	401	RSRGTRAAMASHVECRPLGVFECELCCTL TAPYSYVQKQPPN TQSMVLLIESYVNM DPTFSDKDRLVFLGSCCSLCSRLVCVGPG VGACSLFYSKRFCLPCVRENINNAFPQEIRQ DLEKRKAPSKRTPSQPGSRT
5050	13101	A	592	66	1474	TAPPPSIPSPSSLLSPCNGVHIVSTQPSCP GRGKMSKLLNPPEEMTSRDYYFDSYAIF GHEEMLKDEVRTLTYRNMSYIINCIIVF KDKVVLGVGSGTLGILSMFAAKAGAKK VFGIECSSISDYSEKIKIANHLDNUTIFKG KVEEELPVKEVDIIISEWMGYCLFYES MLNTVIFARDKWLKPGGLMFPPDRAALY VVAJEDRQYKDFKHWWENVYGFDMTC IRDVAMKEPLVDIVDPKQVVTNACLI WTIIRGGPGCAGSPAVPPWSPGNAGSCT APTWARAKVVRRLRYEPVRLLEGHATLV TEGTKKERYQGPWKEPGAWLIGPEKVM EKSVLTPNVILDASYCWL EAYQKIGEGV VWFIYTGGPDK1QIAVLVQQUEVDTIYF KTEELSTSAFCLQIQRNDYVHALVTTYF NIEFTKCHKKMGFSTA MEEPCIPIFVLSK EKVNNVVVTAQVESVLDGEAG

5051	13102 A	5920	96		615NIJLRLNSIITSRKIKYTTLSTTISIFLFPQISP QMSLIGFYESEANKGSHFPGPYVCSCLN AETT/SLFYIICFLKSPDQGQAQTMDAY NITPLRAA/WEVCVQDQFGFINYEVG/DISK KLFFHMKEV/SRDQCSAWNVPSSLR GPKA/VAAPRPDRIV/SLRNKNTLD/IDAS DPR
5052	13103 A	5921	1497	2853	EMVLVSSSVWIVMFVCSSTSVKFWMG SSHIADEV/FTV/VPDMLSAQRNHAIKK LPGTVSFHSHDHRLFGTVEKEATFSNP KTTSPPNGKEKEAEDGIIAYDDCGVKLT AFQAKDVEGSTSPQIGDIEVSFSIDKQR GQQVATCVRLLGRNSNSKRLLGYVATL KDNGFETIANHDKIEFFHYSEFGDVDS LELGDMVEVLSKGKGNKVSAAKVNK HSVNGITEEADPTIYSGKVRPLRSVDPT QTEYQGMIEIVEEGDMKGEVYPPGIVGM ANGDCLOQKGEESVKFQLCVLQNAQTM AYNITP/LRRAVTCVVKDQDFGTINYEVG DSSLKLFH/VKKVQDGWELQ/A/GDEVEF SVLNPAATGKVQAPCNVWR/VCEGPP RLQAPRPRDRVGSIURLKNITLDDASA LMVLRQPKGDQITSMGFGAERK/RQA GVID
5053	13104 A	5922	23	206	
5054	13105 A	5923	1	267	ALFRDKLKHMGKSTRKLFLELARAFSEK TKMRKSKRKHLLKHQSRLGAAASTANL LDVVEGHACDENFNRGSQSRAPRGGG RPCREGQ
5055	13106 A	5924	1	267	FFFFFLTDILLF/CLFLRWSFTVTQAGVQ WSDLGLSOPPPPLKQFSCLSLLSSWDH KCLAPRPNFCFSKDGVPSCWPGWQSQ PHLR
5056	13107 A	5925	1	325	MSTSGGSWPRWSVTAMPPTSMRPCRR SSCCWPCIPRLPASTAD*SMRPHSGPMT TRSLCKT/RSYADGYSPPLNVQARYVV/A W*GTQEKMPPGRALIAPQRHRAGQQR
5057	13108 A	5926	366	489	QETTWPDLETKWLP*RPWMGMSSGF ARWSVTAMPPTSE
5058	13109 A	5927	228	754	
5059	13110 A	5928	1	2709	
5060	13111 B	5929	76	925	XQCFFLSADSRIAELLTELHOLSKQTQEE RSRSEHNHLVNIOQKTHERMQTNKISPYYY RTKLRGLYTTAKADEAEACNLRLKALD MIAEIKSLLERRSAAKIAGLYNDSEPPR KTMRRGVLMILLQQSAMTLPL.WIGKPG DKPSQPSPVLAASKALQVLLGFLLYN LPLCLSHRHHPQFLSRLRPLYSGDCISQE CLNLNFLLADWFVGFPLSIVLVLIILYEG LLGAAAYVNTFHNALETSDEHREFAMA ATCISDTLGISLSGLLALPLHDPLCQLS*
5061	13112 A	593	379	473	DLQGVNHLRP/GVQDQPGQHGGETLSSLK IQNNHLARRGGGR/QLSQLRRLQRDNRL NPQGGGGCSEPRSRHCTPAWVTEQDPISK ONKRQOANFLIWEDDFPYIPQGTKLIFTAQ KLPRCK
5062	13113 A	5930	3	1066	GSWQYQPTGLYAPTRR/QLNVILDWVQA HFPTDDOFALAEFDGNTLYEHSDPREGH QDWNTLIIYNYGRREVSNFLVGNALYWI ERFGIDALRVDAVASMYRDYSRKCEGE WIPNEFGRENLAEFLRRTNTRNLGEQV SGAVTMAEESTDFPGVSRPQDMGLGF WYKWNLGMHDITLDYMKLDPVYRQY HHDKLTFGLYNYTENFVPLSHDEVVH GKKSILDRMPGDAWQKFANLRAYGW MWAPPGKLLFMAAKIAGLYNDSEPPR KTMRRGVLMILLQQSAMTLPL.WIGKPG DKPPPLCGAIPASGDIYVAPRGDRLLARL

					KPLNGERAVDSLPEGGQVTAIATQQGM R
5063	I3114	A	5931	53	506 FFVFLVEMGFHHVGQAGLELLNSSLPS SASQSAG/IYRCPLCPAFFFFFSETESRSV AQAVVQWCDLSSI QPPPFFKRFECFLSL LSSWDYRHVPCLANPCIFVEAGPHHV GQAGHKLLISSDPPASVSQSAGITGMSHC IQPHSPVFS
5064	I3115	A	5932	1	346 SANATTKTSETNHTSRPRLKNVDRSTAQ QLAVTVGNVTIVIITDFKEKTRSSSSTSSST VTTSAGSIEQQNQQSSGVQRAPDKGLPP RSLPTPKGDMSAVNDEIIPPEIATWNCEKL
5065	I3116	A	5933	1	915 MGKEKTHINIVNGHIDSGKSTSTGHILY KCGGINKRSIKKFEEKAEM/GKGSFKSF VCDSSWYIPGHRDEFITNIFTGTSQADCAV LVVAAGVGEFEAALLLQDVYKIGGIGT PDQVETVALKPGVVITFAPVNJTTEVK SVKMHHHEALSEAFSGDNVGFHVKNSV KDIHCSNNAGNCKNDPPMEAAGFTAQVI MLNHPGQ/DCHMAHIACKFAELKEKIDR SSGKKLEDGPKFLKSQDVAIDMVPQKPM MCVESFSDYPLPLGFAACDMRQTVALG VIKAADKKAAGAGKVTKYPQKAQAK
5066	I3117	A	5934	1	759
5067	I3118	A	5935	30	706 KPLKAKMGKEKTHINIVVIGHVDSQKS TTTGHILIYCCGIDKRTIEKFEKEAEMG KGSKFYAWVLDKLKAERERGIFTIDISLW KFETSKYYVTIDAPGHRDFIKNMITGTS QADCACLIVAAGVGEFEAVFKNGQTR EHALLAYTLGGKQLIVGVNKMDSTEPY SQKKYEEIVNEVNSTYIKKIGVNPDTRAFV PUSQKNGDHMLEPRANMPWFK/GWSPHP
5068	I3119	A	5936	1	706 QSEQPCALPSRESTKLGJIGTVSSAPMET \GFSNPGMVVTFAPSPR*QRKVKSIAKMH \HEALSEALSGEQLGASNVKNVFCQGM FRPWQTQAG*FAKNDPTQWEASWLSLL QVILLNHPRPK*GAQGMPMLYLCDUHTAHI ACKFAELKEKIDRISGKKLEDPGPFLK SGDAAIIVDMVPGKPMCVESFSDYPLGL RFAVRDMROTVAVGVVIKAVDKKAAGA GKVTKSAQKAQAK
5069	I3120	A	5937	364	458 VIEHLVSQDGGLDFNL/NLVICPPRPPKVLGL QA
5070	I3121	A	5938	1	266 EMESRSIAIRMECSGSISIAHCKLRLPGSH HSPASVSRVAGTTGTCHHARLJLFYFL ETGPHCVSHDGLHLL/NLVICPPRPPKVL GLQQA
5071	I3122	A	5939	1	201 FPTGP/PKLDPVHLPPFGPPPSA/WALPG MSPSPSPDPRRNKLRLIIIRLKNASLSLYLQE VFVFPYKMP
5072	I3123	A	594	2	307 QAGV**WDLGLSLQPLPPRLKQFS/CILNP GNLSKEE*STKETKQNFVGHIQSQTSKF AISLIQHPINMRSGTKTFMMIV*GNKQRS KPPWTFKIPFDMLPS
5073	I3124	A	5940	2	142 ESQDVKHLQDLSFCQLIPPDPPPLTVPO THNARDQWLQDAPHISL

5074	I3125A	5941	1	432	IIHDELSRAARA\PDGPRHAAGAANAGPA AGPRRPVNLDLSALAALRKEMLSA\WOLR QLDMSLLCQLWGLYESIQDYKHLQCDL SFCQDLSSSLHSDDSYPPDAGLSDEEPP DASLPPDPPP\LTVPQT\HNARDQWLQDAF HISL
5075	I3126A	5942	3	696	VSMGALGLEGRGGRLQGRGSLLAVAG ATSLVTLLLAVPTVLAVALVPODQGG/LV LGFOKLPEEEPEETDLSPLGLPAAHILGAPL KGQQGLGWETTKEQAFLTSQTSQFSDAEGL ALPDQGLYYLYCLVGYGRAPPGGGD QGRSVILRSSLYRAGGAYGPGLPTELLLE GAETVTPVLDPARRQGYGPLWYTSGF GGIQLQRGERVVVNIHPDMVDFARG KTFPGAVMVG
5076	I3127A	5943	1	743	MGALGLEGRGGRLQGRGSLLAVAGAT \\$LVTLLLAVPTVLAVALVPODQGG/LV TETADPQGAQAQQGLGFQKLPEEEPEETDLS PLGLTAHILIGAPLKGHGLGWETTKEQA FLTSQTSQVSDAEGLALPQDGGLYYIYCLV GITGRAPPGGDPQGRSVTLRSSLYRAG GAYGPGLPTEILLEGIAETATPVLDPARR QGFPLWYTSGFQGLVQLRGERVVV INISHPDMVDFARGKTFPGAVMVG
5077	I3128A	5944	1	588	MGFLIJVGQAGKLILTSGHYQKKRMFSE NEENVKRMKTSEQINENICVSLERQTAFL EQVPESEFEHLPLPEPPAPLPELWDKTRD TLPQPKPELKVKVRVFRPONGIALTWNTKI NPCKAPEEKVPLFLCHENSNNKLIWKKI GEIKALPLPMACTLSQFLASNRYYFTVQ SKDIFGRYGPFCDIKSJSPGFSENLT
5078	I3129A	5945	3	495	EDTGTRIYE\ESAGAVKKARGFLEFVEDF IQVSKNLIGKVIGKNGKVIEQIVDKSDMV PVREGDSENKLPEKDDDRDSRQHORDS RRCPGGRCRSVSGRGRGGPGRGKSSIS SVPKDPDSNPSVLDN/TESDQTA\TDTAS KSHHSTNRHTRSRRTTDEDAVL
5079	I3130A	5946	1	2065	MAELTVEVRGSNGAFYKGFIFKDVBHEDSL TVFENNWQPERQVPPNEVRLPPPPDJK KEISEGDEVEVYSRANDEQPCGWWLAK VRMMLKGEFYVIEYACADATYNEIVTFER LRPVNQNKTVKKNTFKCTVDPEDLRE ACANENAHKDFKKAVGACRIFYHPETT QLMILSAEATVKRVNLSDMHLRSIRTK LMLMSRNEEA\KHL\CTKQLAA\FHEE FVVRDLMGLAIGTHGSNIQQARXVPGV TAILEDDEGTGTRINGESADAVKKARGFL EFVDEFIQVPRNLVGVKVGKNGKIEQEV DKSGVVVRVRIEJDNENKLPREDGMVPE VFVGTKE\SIGNVQVILLEYHIALKEVEQ LIMERLQIDEQLRQJGMGFRP\STRGPEK EKGYATDESTVSSVQGSRSYSGRGRGR GPNTSTS\GVTNSELSNPSETESERKDELS DWSLAGEDDRDSRQHQRDSRKRPGGRGR SVSGGRGRGGP\RGKSSISVQYRSN\H NCSTLKRIFLASDMNIVLKDDPSNPySLL DNTESDQTA\TDTASESHSTNRRRSRR RRTDEDAVLMDGMTESDTASVNENGLD DSEKKPQRNRSRRRFRGQ\DE\DROP D\YIEVEKVVSLWQAKDVIEEHGPSEK AINGTISASQDDISLQLQRTPGEEKINTLK EENTQEAAVLNGVS

5080	13131	A	5947	1	1876	MADVTVEVRGSNGAFYKGFIKVHDHES LIVVFEENNWPOPERQVPEVNEVRLPPPPD KKEISEGDEVEVYSRANDQEPCGWWLA KVRMMKGGEFYVIEYAAACDATYNEIVTPE RERPVNQNKTVKKNTTEFKCTDVPEDL REACANENAHAKDFKAvgACRIFYHPE TTQLMILSASEATVKRVN1SDMHLSRIS TKLMLMSRNEEATKHLECTKQL-AAAFII HEFVREDLMLGAJGTHGSNIQQARKVP GVTAIELDDEDTGTTRIYGESADAVKKAR GFLEFVEDRIFQVPRNLVGKVIGKNGRKVIQ HIVDKSGVVRVRIEGDNEKNLPREDGMV PFVFVGTKEISIGNVQVLLEYHAYLKVE QRMERLQIDEQRLQIGRSYSRGGRGR RGPNYITSGYGTNSLSNPSETSESRKDDEL SDWSLAGEDDDRDSRRIQRDSRRRPGGRG RSVSGGRGGGPRGGKSSISSVSKPDPS NPYSLLDNTESDQTADTDASESHESTN RRRR/SIRRRTDIDAVLMDGMDTSDDT ASVNENGTVIAUDYISRAESQSJQRNLPI RETLAKNKKEMAKD VIEEHGPSEKAING PATSASQDDISKAT/RVLRGEFKINPLKEE NTQEAALVNGVS
5081	13132	A	5948	1	392	TESERKDELDSDWSLAGEDDDRSRHQEDS WRPFGGGRGRSVSGGRGGGRGGPRGGKSS SVLKDQPSNPYSLLDNTESDQTADTDASE SHESTNRRRRSRRRRTDIDAVLMDG MTESDASVNEENGGLKRCD
5082	13133	A	5949	269	973	PAACPSANNICFVGECSCYCSTEHALC GKPDKQEGLSLGVALPDLSSLAKRKTWRN PWRRSYHKKRKAWEWVDPDYCEEVKOT PPYDSSHRLDVMMDMTIEPFLMGNMDR HYETIEFKFGNETPHLDNGRGGFKYSH DELSILVPLQCCCRURKSTYVRLQLLLA EYKLSSLLMAESLRGDQEAPEVLYOPHLEA LDRRLRVVLLKAVWDCAVERGNLHSVVDD DDLDETEHRAASAR
5083	13134	A	595	374	665	GAQGLSLSPRLECNAGAILAHCNLCLPGSS NSPGSAS*VAGTIGMHIIHARLMFVFLVE SGFHVHGQAGLELLTSSDPPASASQAGI RGISSRAGLDF
5084	13135	A	5950	1	106	
5085	13136	C	5951	146	280	MVFKDQKMRCFCNQXXXXLMNXXX XXXVLREKKGGSPFPVFL*
5086	13137	A	5952	2	1929	MAAAA VDSAMEVVPALAAAEEAAPEVAGL CLSVNLPGEVLEVYLCCGSLTAAIDGRVS STCRRLREI COSSGKVWKEQFRVRWPSL MKHYSPIDVNVWLEYYKVRQJA GLEA RKIVAFSFRKFSHEHPCNGPSDIENLEGP EIFFDEL VCLINMEGRKALTWKYYAKK ILYYLRQQKILNNLKAFLQQPDDYESYL EGAYVIDQYCNPLSDISLKDQJAQJDISIVE LVCCKTLRGINRHRPSLTIFIAGESSMIME LQSQVLDAMNYVLYDQDFKFGNRMDY YNALNLYMHVILRJTGIPISMSSLYLLTI ARQLGVPLEPVNFSSHFLLRLWCQGAEGA TLDIFDYIYIDAFGKGQLTGECEYILG IOHVTAAALYGVVNVVKKVLORMVGNLL SLGKREGIDQSYOLLRDSLWLYLA MYP DQVQLLLLQARVYFHLLGJWPEKSFCLV LKVLDLQHJQTLLDPCQHGA VGYLNQ HYLEHIL/ERKKEEVGVFVKLRSDEHHR DVCYSIQLGHYGRHKRYGLI*LC*FYGW GPILAWMGHIELDSRNMMVHSLPHGHH QPFYNVNLVEDGSCRYAQAQENLEYNAEP OEISHWPDVGRVYSQRFTVTHRTHIPNAEL EIRYPEDLEFVYETVQNIYKCKRKENIE

5087	13138	A	5953	3	364	FFSPETESHJCIAQAGVQWOMLGSLSOFSPP PPSCLSLPSSSDYRIAPLHRANFLFLR DGV SACWPATAPGILLIFGRAPWLMPV IPAPREAEAGGSLEARSSRPASLFPQVSFFS PFHMF
5088	13139	A	5954	2	114	FFFFGRDK/SLTMLPRLVSNCWAGQIILPS WPPVEVRLRLQA
5089	13140	A	5955	3	139	FFFFFETETHTVARAGVQWCWHLASLQPL PAGSSHSP^AAASHVAS
5090	13141	A	5956	274	363	
5091	13142	A	5957	7	1047	
5092	13143	A	5958	7	960	
5093	13144	A	5959	2973	3400	GIFMCPDMYTTSKTFLKACLFALFFFIIYP JYFLVGIMEEVKMCNPQVGFSEKFYLYP *SLSV*FFFETESCFVTQAGVLWCYLLSL QPPPGFKRFSCLSLSSSWDYLHLPCCPA NFC/IFS RDGVSPCWPQ+SQT/PDLA
5094	13145	A	596	1	685	EIKYHSLPRLERCGEISAH^NLCLPGSSDS PATAS^VAGITGMRHYAQLIQLFLVET^F HHIVGGWSRTPDSNDPPASASQGAGDY RRD
5095	13146	A	5960	6459	7074	LEARAGSYRPDLPGSHYLLAFFFFFRRS LTIFLSQAGVKWCSDLGSSQSPGPKFQF SCLSLSSWWDYRHAPPYRG*SFCCCCFVF LVEIGVSPCWARLVLNARPQVHPPRAS QSAGTGTAVSHHAQPLCLFTYLFIYFY/CIF LRLSFALGPOARVQWHNLLSQPPPQF KQFCLSLPSSWDYRWPPPBPANFVFL RYLR
5096	13147	A	5961	1	361	VCYPDRCGEGSVAASYRQPVPHQCGW FHPLKPA/SHPDTCVCFRKTPKIPQKHS GSPRIPPPSPSYRGRFLFRFHPPOHGAQGP SPPPLGRKHRSHTGSAALRACPPGAA GLHSWGQI
5097	13148	B	5962	27	288	MRKVHVSTVTPNYAGGEKFRRTAYTR QVLELEKEFHYNRYLTRRRVEIAHAL CLSERQIKIWQNRRMKWKDDHKLPNT KIRSGX*
5098	13149	A	5963	1	825	MSSFLINSNYVDPKFPCEYESQSDYI.PS DHSPGYYAGGQRRESSFQPEAGFGRRAA CTVORYAACRDPGP PPPPPPPP PPPPGL SPRAPAPPAGALLPEPGQRCEAVSSSSP PPCAONPLIIPSFSHSACKEPVVYPWMR KVHVSTGRYSLSEVGSGWGGVEEVEEK EESNPNYAGGEPKRSRTAYTRQVLEL EKEFHYNRYLTTRRRVEIAHALCLSERQI KIWFQNRRMWKKDHLKLPNTKIHSGG AAGSAGGPPGRPNNGPRAL
5099	13150	A	5964	656	1164	
5100	13151	A	5965	1	4033	MWRRIHPRTSGGTRGVLSGNRGVEYGS GRHLGHTFEGRWRLKPKMPEAVGTDPS TSRKMAELEEVTLDGKPLQALRVIDLK AALEQRGLAKSOKSALVRLKGALML ENLOKJISTPHAAFQPNQSIQELEMQSNSFI KQYLEKQOELLRQRLERAREAAELEEA SAESEDDEMHPGVASLLPPDFQSSLERP ELELSRHSPRKSSSIEEKGDSDDEKPRK GERRSSSRVRQARAALKSEGSQPAEEEEED QETP
5101	13152	A	5966	3	5979	KSSISFEKGDSDDEKPRKGERRSSVRQ ARAALKSEGSQPAEEEEEDQETPSRNLLRV RADRNLLKTEEEEEECEEEDDEEEEGD DEQGOKSREAPILKEFKEEGEEIPRVKPE MMDERPKTRSQEVEVLERGRGRFRTRSQQE ARKSHLARQOKEKEMKTISPLEEEEREI KSSQGLKEKSKSPSPRILTEDRKKASLV ALPEOTASEEFTPPLLTKEASSPPPHQPL HSEEIEPMEGPAPAVLJQLSPNTDA

5102	13153 A	5967	16	208	LLPYSTNNPASASRLAVIAGVHHHTQLNF FLVETGSHCVTQSGLKL PASSNPPTCLT MLGLQV
5103	13154 A	5968	1	932	MKFLLDILLLPLLIIVCSLESFVKLWFIPKR RKSVTGEIVLJTGAGHIGRILAYEPAKL KSKLVLWLDINKHGLEETAACKCGLGAK VHVFVVDCSNREDIYSSAKKVKAEIGDV SILVNNAVGVVYTSDFATQDPQEIKTFE VNVLAHFWITTKAFLPAM/TKNNNGHIVT VASAAGHVSVPEFLAYCSSKFAAVGVFKH TLTDELAALQTGVIISLCLCPNFVNNTGFI KNPSTSLGPTSCSRVGPKLVPVEEVNRL MHGILTEQKMIFIPSSIAFLTTLERLPERF LAVLKRKVKVFEAVIGYKMKPH
5104	13155 A	5969	1	1202	IHTGENPYECHECCGKAFSRKYQLISHQRT HAGEKPYECTDCGKAFGLKSQLIHQRT HTGEKPYPCECGKAFTFKSOLIVHKGV HTGVKPYGGSQCAKFTSLKSQLIVHQRS HTGVKPYGSECCKAFRSKSYLIIHMRT HTGEKPHECREGKSFNSNQLIVHQRIH TGENPYECSEGKAFFNKKDQLISHQRT AGEKPYGCSECCKAFAFSKSYLIIHMRTHS GEKPYECNECGKAFTWKSLLIVHERTHA GVNPVYKCSQCCEKSFSGEITPSLLHQRMH TTEKPYECSEGKAFFRNSSQLIVHORTHS GEKPYGCNECGKTFSQKSILSAHQRTHT GEKPKCCTECGKAFCWKSQSLIMHQRT VDDKH
5105	13156 A	597	3	198	GIPGSSFCGLCGDVPGKPV*RADGSC*D VAPRLLRPRGRGGRCGPVLDLSLAGQRG AESCRG
5106	13157 A	5970	153	571	LLVFYLPTPSLKGGLRQDMSLLCQLYS LYESIQYEYKGACQAAASSPNWTYALENGF FDEEEEEYFPEQNSLHDRDRGPPRDLSP VAPPSPAAATGWSPSRGSWEGRGDCWEAL FTGHAVIIICCFCKKAFLWTVLGHRG
5107	13158 B	5971	223	347	XNYIRVFGGGTKLTVLGQPKAAPSVTLP PPSSIEI.QANKATL*
5108	13159 A	5972	2	283	LHSRLDGAACILPGHCHGSRVEVTYETH QGGLVGLKLLRGGREQSDRGGSLGLT*D GOLGPBAEQRTTQA VVIPCCAVIMSLIIRL EPTDGOGG
5109	13160 A	5973	3	231	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAACILPGHCHGSRVEVTYETHQGGL VGLKLLRGGREQSDRGGSLGLT
5110	13161 A	5974	2	385	APFMRDPAAVASVGF/PLGRQAQVAAG RILVVALPGQFQGHLHSRLDGAACILPGH CHGSRVEVTYETHQGGLVGLKLLRGW EQSDRGGSLGLTEDQGVQGASSEDSIISWP KHAIVSLLRLEPGDE
5111	13162 A	5975	3	539	RRQAQIAAGRVLVVALFGGCGGLHSRL DGAACILPGHCHGSRVEVTYETHQGGLV GLKLLRGGREQSDRGGSLGLT*DQGLGP SAEHPLTTTIPHLTVLIVGLIPGLDPGDGQ GGRVPRAGAAENRSGIPAGRSAS**MTNT GARPGCWYHCTLLSPFSPQQVILAVFP GATDTEGG
5112	13163 A	5976	1	351	RGGWEQSDRGGSLGLTEDQGLGASSEH RTMQAVIPCCVIIISLIRLESTDQGG*G ARLGARESVDP*GPLIITIDEEFGPSPWD LLVPVYINNSDVGVASRTRDGDPLPGP RR
5113	13164 B	5977	78	448	XORVITISCTGSSSTIGAGYDVHWYQQLP GTAPKLLIYGNNSRPSGVDPDRSGSKSGT SASLAITGLQAEADEADYYYCQSYDSSLG YWWFGGGTKLTVLGQPKAAPSVTLP PPSSIEI.QANKATL*

5114	13165	A	5978	1	393 RVLVVVALFGCCGGLHSLRDGAICLPGH CHGSRVEVTYETHQCGLVGLKLRLRRGR EONDRGGSLGLT*DOLGPFAEHPSGTT TSS*TAAISLGLSLEPINCQGGRGGTILGSI EIVNKPRLRADYRPHKS
5115	13166	A	5979	3	389 LPGPGBTMVAFCGGLPTVQGRVQGALAP VLVGACLEGCGGLHSLRDGAICLPGHC HGSRVEVTYETHQCGLVGLKLRLRGRE QSDRGGSLLGLDLGRSAWSLRRHPDKDH WCLLIDSNSQPRLPGRH
5116	13167	B	598	188	246 MAWLPGSCARVAFPAGAAAR*
5117	13168	A	5980	1	908 AGHRGRRAFRGKQOGQRGSRLGAGFSG WDKRWVVKGVSVRAEJEGVTGPARD NSIQAGGRREVGGYALRRRGRNERAEGL VFSDQTSPIRASPTTRRHGPRLCASPGLS HWVPGPHTPLRTQGRPPIMCEIRKEERE QFDSTLMRIFIEKGWMTWDGGRDPSPG NLQLQAPVGGVRVGGGLKAFCRGHCLLH GAPPMRDPAAVAVASVGLPPLLGRQAQVAA GRILVVALFGOFGGIQLSHLDRAICLPLSH CTGPRVKIHFKKNHVGVLVGLKLRLRGW EQSDRGGSLLGLTEDGQLGASSEHSTQ
5118	13169	C	5981	60	392
5119	13170	C	5982	176	385
5120	13171	A	5983	1876	2540 FLQLGSWLGRGSCQVSRGPQPRSDNLL VEPKDLKGNLTHFTTLGGFHLLYMMIWI HPPINLCGSGSNFFFLFFFFFFSPSLRLGLALL POAGWEVRDLGLLQLPVLPRLEQS/CSS GSWDRRFMPPWPANFCM/FL/RWGLT VLPRLVSNNSWAQ/CDPPVSASQSAGITIV SHHVQLEGSTSFTFCKKHICIFTPFPSFLF ISHFYIDLLFYNKTLLPKKKK
5121	13172	A	5984	1	393
5122	13173	A	5985	1	1427 MRERFRNLDDEEVEKRYAVYNKLRYEHT FLKSEFEHQKEEVARILDEGKIKYESEIA RLEEDKEELRNQVILNVDLTKDSKRVEQL AREKVYLQOKLKGLEAEVAELKAEEEN SEAQVENAQRIQVQRQLAEMQATVRSLE AEKQSANLRAERLEK/DSLQQSSEQNTL INKLHKAEIREINTLSSVKELKHNSNKLEI TDIKLETARAKSELDRERNKIHISELDYL HLDNEILKAAVEHHKVLLVKKDRELIRK VQAAKEEGYQKLVVLQDEKLELENRLA DLEMKVVEHDVWRQSEKDQYEELKRAS QMAEEITRELQSVRLKLQQQIVTIENAE KEKNNENSDLKQOISLSLQIQVTSLAQSEND LILSNQMLKEMVERLKQECRNFRSQAE KAQLEAETKLEEKQIQWLEEKHLHERI TDREEEKYINQAKEKLQRAAIAQKKRKSLS HENLKRLQEKVELEAKKEELTENQ VLK

5123	13174	A	5986	2	1831	NYKTLIIJICALFTLTVTLLWNKCSSDKAIIQFPFRSSSGFRRVDFGEFKRAASESNYNMNHVAKQQSEEAPFOFQQKAPPVVGGFN SNVGSKVLGLKYEEIDCLINDEHTIKGRR EGNEVFLPFTWVEKFYFDVYKGKVVQYDGYDRFFFSHSYSKVAQRAPYHPDGFM SPEGYNVEVRDRVKCISGVEGVPLSTQW GPQGYFYPQIAQYGLSHYSKNLTERKPPH IEVYETAEDRDKNKPNDWTPKGCFMA NVAOKSRFTNVKQFIAPETSEGVSLSQLG NTKDFIISFDLKLFTNGSVVSVLETEKN QLFTHYYVSNAQLIJAFKERDIVYGIOPRTS WSTVTRDLVTDLRKGVGGLSNTKAVKPT KIMPKKVVRLIAKKGFLDNITSTTAHM AAFAAASDWLVRNQDEKGGWPIMVTRK LGHGFKSLEPGWYSAMAQQQAISSLVR AYLLTKDHFLNSAIRTATAPYKFLSEQH GVKAFFMNNKHWDWEYPTPSSFVLNG FMYSLIGYDLKETAGEKLGKEARSLYE RGMESELKAMLPIPLYDTGSRTIYDLRHFM LGIAPIANLARWDYHTHINOLQLLTIDES PIKEFVWRWKSYLKGSRAKH
5124	13175	A	5987	34	332	LLRQGLALLPRLECSGTISAYCNLCPPGS NHPPVSVSQVAGTTGVHHHAQQLIFVFVW VETGFCHVAQYGLEFLGSSNPPALTSPSA GITGHSCIWQAQF
5125	13176	A	5988	3	395	PAGGPAAGRAARAGAMAKLLSCVLGP RLYKIYRERDSERAPIASVPEPTAVIAPH SSS/WGYLSLSKVVFPSHYAGTILLLAG VACLRSIGRWTNPQYRQFTITLEATHRNQ SSENKRQLANYNFDFRSW
5126	13177	A	5989	3	414	
5127	13178	A	599	24	452	APSPDAMG/HSLWGKVNVNVEDAGGETILG RLLWVYPTQRFDSFGNLSSAAMGN PKVKAHGKVKVTLSSLGDAIKHLDLKGTF AQSELHCDKLHVDPPEFLKGNVLTVT LAHFGEFTPEVQASWQKMVTGVASA LSSRYH
5128	13179	A	5990	3	784	LIALRTCTESPGBTTHASADAWEAKLSC VLCPRLYK1YRERDSEGAPISETEPTAD TPHSSSWDTYDYYQRALEKHADSLALA SIWPISYYSCTAFFYLYRKGYLSLSKV VPFSHYAGTILLLAGVACLUR/GIGRWT NPQYRQFTITLEATHREPSSLQTKROLAN YNFDFRSWPVDFHWEEPSSRKESRGGPS RRGVALLRPEPLHRGTADETLNRVKKLP CQITSYLVLAHTLWRRMLYPGSVLLQK ALMPVL
5129	13180	A	5991	461	660	
5130	13181	A	5992	1	1774	MSSSEEVWSWPCGLRGNEFFCEVDIED YIQDKFNLTGLNEQVPHYRQALDMIDL EPOIGRWRTPNQYKQFTITLEATHRNQSE NKROLVYVFFDFRSWPVDFHWEEPSSR KERSRGGSRSRGVALLRPEPLHRTGTADETL LNRVKKLPICOITSYLVAAHTLGRMLYPG SVVLLQKALMPVLVQGQAIRLVEKCNQ RRAKLLACDGNEIDTMFVDRRGTAEPQ GQKLVICCEGNAQFYEVGCVSTPLEAGY SVLGWNHNPFGAGSTGVPPQNEANAMD VVJDQFAIHLRLFFFHDQDIIYALAIQGFTAT WAAMSYPDVSAMILDASFDLVLPLALK VMPSWGRGLVTRTVRQHNLNNNAEQLC RYQGPVLLRKTQDGNTPTVPKDJCSN RANCLLVKALQIHRYPGVMAEGLLVA RQWLEASSQLEEASISYRSWEVEEDWCLA SVLRSYQAEHGADFPWSVGEDMSAD GRRQAQGLPFGLGKASCHNFGGFTHTC PULSPONFFRCPPWHPLGTOGLIMIEEWG ERRHEERPFLFVILLCFMFAVYKFCCKV

					GPPPLLTTPVPLARFPSPFMWLTLTSNIII PALHEMG
5131	13182	A	5993	3	180
5132	13183	A	5994	1	1015 MIAPLGLGVLLARDQYRQAALADWDLKL DGGROSTGAVSLKEIIGLEGVELGADGK TVSYTQFLPTNAFGARRNTIDSTSSFSQ FRNLSHRSLSISGRASGTTQGSLDTSQDSLGD FMDYDPNLLDDPQWPCKGHKRVLFIPSY MLCTQLPCSQAFKCSTVHSSDLSLHERN EHPKCKHNCNLLQEGHSPQAGFRRALV VAPMQVPILLMALGVTTVDVVKPSUD KKDMNKFFKEKPFHIKTLNKRITLKRE MRKLAQEDCALEEPTVPMAFVYFEKLA LKGKLNQNQRKLCAGACVLVSSQYKFG SDIKKHEVKHLIDKLEEKFRINRARTGF AF
5133	13184	A	5995	48	327 EEEALRRLQRQALAEQAKHGDPGDA\AQ QEAKHREAEMRNISLQVLDQSARARIV SEQGLIEILKVSSQTEKITTIVKFNRKV MDSDEDDYY
5134	13185	A	5996	52	281 VSKLKHLKPEKTKA\VENYLJQMARYG QKDVSVSPLDSLEELYCYLLYQNMASKGQ LHLHWITEFLLTLRNCWRE
5135	13186	A	5997	1	280 GNPLFFLELHWNPNSLRQACDRIYRGQ QKDVSVSPRFVFCGGTVEEILHFQEKKIDL AKQFLSGSGESVTKLTLSDLRVLIGIYPP VDRVSE
5136	13187	A	5998	36	512 LFVLLQVNVSNGNELCLMTSHLESTRGHA AERMNQLKMWLKKMMEAPEASATVIFAG DTNLRDREVTRCGGLPNIVDWEFLG KPKHCQYTWTDTQTELLIGITAACKLR FDRIFRVAEEGHIPRSLDLGLEKL CGREFPSDHGWLLCNLJDHIL
5137	13188	C	5999	205	519 MGKEGVHGGLINKKCYEMAIFIQAPPV LTSSVPSPLPTIALHIPFXXHTHTNHIF WAITPYPLLPKPHGLGARAGWTDTSPY PYPSRVWLNFCLQFFFSE*
5138	13189	A	6	144	398
5139	13190	A	60	713	811 IPGRPWRL*A*PVTLRLQTQATCGG*MV RASL
5140	13191	A	600	3	496 HS LGFTSEVINKLRSRSPDAMGHFTEDKG TITSLWGKVNVEDAGGETLGRLLVVYP WTQRFDFSGNLSSASAIMGNPKVKAH GKVKLTSLGDAIKHIL*SQGAPFAOA*S ELHCDKAALLDPEELSSFLGEMLLGDPF LGNPIFGOKNFTPEGCKAFLGQKDGF

5141	13192	A	6000	3	939	FLKLHLQSSVSGLASGGGREWGAGSGV RGLLHSERSRGPDGSACPELSASPRPASR GSSSPVRGRQQQRPRAAPVAAPWPCWN AYIDNLMLADGTCTVTAIVRYQDSEPPV WAAVPGKTFVN WPA GGSLVKGKDR SSFLR MGLTLWGGOKCSVIRGLTCLQD GEF SAMDLRYQEPGPAGATFOCSLFTKT VDKDG*VLADGAKEGVHGLT NKKCYE MASHLSGFPSTDHRLSLPLHRSPTAFAPL SSPYTHIPFLFFGFLPHTPYCCQNMGML GGQGLMGGQTSPHTIPSRRVWYGKLLFFG VFFSSE
5142	13193	A	6001	I72	407	
5143	13194	A	6002	1	185	ESSCLSPLPSSWDHRHGRPWLADFSVF/C YRNLSLTMLPRLGL NSWPQAI LPPWPPKV LGLOA
5144	13195	A	6003	1	618	
5145	13196	A	6004	1	478	HPVRFFVHRGPB VDFSLLEVVSQWYELV VFTASMEIYGSAVAKLDLNSRSILKRRY YRQHCTLELGSYIKLDSVVHSDLSSIVL DNSPGAYRSHPDNAPIKSWSFSDPSDTA LLNLLPMLDA LRFTAD VRSVLSRNLLHQ HRLPTGTTGTLGEPNQCL
5146	13197	A	6005	2	833	WNSAELGRGGPGAGGAGVGIGMMRTQC LLGLRRTFV FAAAKLWSPFIYLLRRQJRTV IQYQTFRYDILPLSPVSRNRLAQVKRKIL VLDLDETLIHSHHHGDVLRPTVPRGOTPDF ILKVKVIDKH PVFRVYHKRPHVDFFLEVV SQWYELVVFATASMEIYGS AVGRNLNW NSRSL *GGRYYRQPAPELGLGSYIKGPL CWFHSDLSSIVIL DNSPGAYRSHPGYGG RDNAPIKSWSV SVTPSDTALLNLLPMLD ALRFTADVRSVLSRNLLHQHRLW
5147	13198	A	6006	2	258	EASRSRV PRLCEGS PILAGCMLH LPGSC HPPASASQVAGT THARHHTQ LFAFLVE NGLC* PGWSRSPDL VIRLPWPPKV LGLQ A
5148	13199	A	6007	60	429	IRGQYMWGPVSSSLFC SMGYLVFGFFSF FFFCDEVL LLSTRELCNGTISGV HCNLLCP GSSHSPV ASRVA GTTGARNKARL FLYF FLVEMGF FHISQDGL LLNLVIRPPWPP KVLGLOA
5149	13200	A	6008	1	1047	SCGWTF TSMSKLL RHRRK HDDDRFTC PVECGKSFS TRAELHK GHSH THLCTKPF CPVERCCARS SARSLY HHSKHV QDVG APKSRCPV STCNRLFTKS KHSMSKAH MV QHSRRQDLL PQEAPSSL TPSSEL SPGQ REL TNMDLA ALFSDT PAN ASGSAGGSDE ALNSGILT DVT TVSSSL QGNLP PAN NSSL GPMEPL VLA VAHD P SLD SPV VLGTA T V L Q Q GS FS V DD Q V T S A G L G C L V A L PMKNS DD P L A T S N S N A A H T P T S S S T P E N A S V P E L L A P I K V E P D S P S P R G V A G V G Q Q E G S H G L P O S T L P S P A E Q H G A Q D T E L S A G T G N F Y L
5150	13201	A	6009	66	423	MEVACRQSTS WQPM DLASSSD FPRPMQ NPT NRHSQ QANS CLO QDGS P RRMS A SKR Y FEK TNA C RP SS FT K H S RE SS G S P G V S R CT TG TR * N V TK Q P Y F T S K H R K T G V K V R S V V
5151	13202	A	601	24	452	APSPDAMG/HSLW GKV NV VEDAGGETLG R L L V V P W T Q R F D S F G N L S A S A M G N PKVKAHGKVKL T S L G D A K H L D L K G T F A Q L S E L H C D K L H V D P E N F K L G N V L V T V L A H F G K E F T P E V Q A S W Q K M T G V A S A L S S R Y H

5152	13203	A	6010	44	283	FSCLILHDAPPCLILHDAPPSCLSCSVTLGSLVLSRVPRLRGTHQKSAITSTKIALNSM/KI LKHHTDAYFKKQQLFFDVSKK
5153	13204	C	6011	107	118	MAV*
5154	13205	A	6012	197	683	SLEVPLGFLLYLSFILLYSCKPLSNSRVLLC HRDPFLSFLDLFLPAPSPDVYQFLF**C POFSIRH*TL*MLHKCCLDDFFFFFFETR FHSP*SLRLECSGMISAYCSUTSWTQVRG TTGTCHHAWLWFIFSVETGP/HVAQPDL QLLP/PRPKVLRLOV
5155	13206	A	6013	1	415	LWREGPKWN/AARLNESTTFVSVSRPTIA CGMVGTIVRFYIKSPUHLFKYAADPRDK HWLAEQHIMRATGGKMMAYLIEEDIP GPGPVMITEDALDLKLEGIEIPLSLPSW MVEKMRKYMETLRTENEHRAVEAPIQP T
5156	13207	A	6014	1	1256	GRPARGAPORGQTPEAG/ADKRATAGLC GGGGGRRRRHRSRGRAGRGEPAAGLKS QGORAVPKRAVARGRGRO/YSAAJILLEP AGSEIADDLSILYSNRAACYLKEGNCSG CJQDCNRALELHPFSMKPLLRRAMAYET LEQYGRKAYVDYKTVLQIDCGQLLANDS VNRLSRILMELDGPNPNREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQQGI TDEKTFKALKKEEGNQCVNDKNYKDALS KYECLKINNNKECAIYTNRALCYKLCLQ FEAKQDCDQALQLAQDNVKAFYRRA AHKGLKNYQKSLIDLNLVILLDPSIJEAK MELEEVTRLLNLKDCTAPFNKEKERKJ EIQEVNEKEEPGRPAGEVSTGCLASEK GKGRSSRSPEDPEKPLIAKPNNAYEFQGII NALSTRKDKEACAHLLAITAPKDLPMPL SNKLEGDTFLILLIQSLKNNLIEKDPSL.VY QHLLYLSKAERFKMMTISKQGKELIE QLFEDLSDTPNHNFTLEDQALKROYEL
5157	13208	A	6015	2	1594	GRPARGAPORGQTPEAG/ADKRATAGLC GGGGGRRRRHRSRGRAGRGEPAAGLKS QGORAVPKRAVARGRGRO/YSAAJILLEP AGSEIADDLSILYSNRAACYLKEGNCSG CJQDCNRALELHPFSMKPLLRRAMAYET LEQYGRKAYVDYKTVLQIDCGQLLANDS VNRLSRILMELDGPNPNREKLSLIPAVPAS VPLQAWHPAKEMISKQAGDSSSHRQQGI TDEKTFKALKKEEGNQCVNDKNYKDALS KYECLKINNNKECAIYTNRALCYKLCLQ FEAKQDCDQALQLAQDNVKAFYRRA AHKGLKNYQKSLIDLNLVILLDPSIJEAK MELEEVTRLLNLKDCTAPFNKEKERKJ EIQEVNEKEEPGRPAGEVSTGCLASEK GKGRSSRSPEDPEKPLIAKPNNAYEFQGII NALSTRKDKEACAHLLAITAPKDLPMPL SNKLEGDTFLILLIQSLKNNLIEKDPSL.VY QHLLYLSKAERFKMMTISKQGKELIE QLFEDLSDTPNHNFTLEDQALKROYEL
5158	13209	A	6016	1	449	MAEGETITFTALTEKFNLPGNYKKPKL YCSNGGHFLRILPDGTVDGTRDRSDQH QLQLSAESVGEVYIKSTETGQVYLMADT DGLLYGSQTPNEECLFLERLEENHYNTY ISKKHAEKNWFGVLKGPRTHYQKAIL FLPLPVSSD
5159	13210	A	6017	1	153	
5160	13211	A	6018	1	528	
5161	13212	A	6019	223	513	QRGPLPEDPSGWHSWDKGQERPAHIRH QMRNVCSWKWRRTITPIYPRSMQRRJ GLLASRRRGAANAVLGLTMARKQSC*A MAEGETITFTALTEKFNLPGNYKKPKL YCSNGGHFLRILPDGTVDGTRDRSDQH QTPNEECLFLERLEENHYNTYISKKHA KNWFVGLKNGSCKRGPRTHYQKAIL FLPLPVSYNSRDLFWEG
5162	13213	A	602	38	538	APSPDAMGHFTEEADKATTLSLGKVNV EVADAGGETLGRLLLVVYPWTORQFDSDFGN LSSASAIDMGNPVKVAHGGKVLTSLGDA IKHLADLKGTFQAQDADVNCCTCDKLHVHD PENFKLGGNVLVTVLGNPFGKEFPTPEG CKASWAERWVTVSWPVCSSRIPLKPL CP
5163	13214	A	6020	1	812	MAEGETITFTALTEKFNLPGNYKKPKL YCSNGGHFLRILPDGTVDGTRDRSDQH GLNYSWTMHQLRQLRTNDHFAGAHA VPSDAQVMGMDAGVYTSKTAIAFVIVL LYHSQVHLSVSLSIMQPKQVQGPWLALS QOLQEDVGLENWNEVTLIESWTPSQLHK PLSLVQLQLSAESVGEVYIKSTETGQYIL AMDTDGLLYGSQTPNEECLFLGLEE HYNTYISKKHAEKNWFGVLKGNGSC

					KRGPRTHYQKQAJLFLPLPVSSD
5164	13215	A	6021	1	1471 MESPFSPEAALQRETGVPGLLTLPD LDGVYELERAVAGFVRDLGCEVRLAQFP DQLLGDAVAVAARLEETTGSKMFILQDFP AYGSCCVDVLGAHQAGAQALIHFGPAC LSPPARPLPVAFVLSSTFCGLGTLCQDLW GPKPRPQSACGAAGEPACAHALEALAT LLRPRYLDLVSSEPAFPQVPGSLSPEMP LERFGRRFPLAPGRRLLEEYGAFYVGGSK ASPDPLDPLSRLLLGWAPGQPFFSSCF DTGKTQDEGARAGGLRARRRYLVERA DARVVGLLAGTLGVVAOQREALAHRLNL TQAAGKRYSVLAJGRPTPAKLANFPFEDV VFVLLACPLGLALAPQLSGLRFQPLAPCE LEAACNPAWPPIGLAPHLTHYADLLPGS PFHVAPLPPESELWETPDVSLTGDLPPLP AWKSSNDHGSALTTPQLEAESSFAA SFLSSRSWQGLEPRLQQTPTVEAVSGRR GIAJAYEDEGSE
5165	13216	A	6022	1	343 PTRPTPTRHTGGCPLLDVFLFRTR ADGPPLRVRSSSFNKNLIFFSKIPQQPCCL AHPFRDPFGGSKRLFWDPFKGPBPLIPAL LSLTQIFRWSCKFPKSRIAQGWALS
5166	13217	A	6023	3	919
5167	13218	A	6024	3	275 GLRLKGIGRDCILGYGASMILLERLIMIS SDADEVFTVCGQCGGLGYSGWCHYCKSS CHVSSLPUPIYACKLFLQELQSMMIIPRLK LSKYNE
5168	13219	A	6025	455	679
5169	13220	A	6026	1	2064 MTASIRRHYTCATDGEFDSSVLVGGDGD LTLVAALGLDLPLPMLMEWMR VAITYAEHRRSLTVDSGDJRQAARLLP/ GPEHCFSRFLRDLARAATEKFQNQDLGFR MLNCGRITDLINQAIELGPDVNTMD QGMTPMLMYCAACADEAMVQMLIDAGA NLDIQVPSNSPREPSHFDRHWTSLTFA VLIGHHSIVVQLLDAAGHEVGEAVNNNG EDSYAETPLQLASAAGNYELVSSLSSRG ADPLLSMSLEAHMGMSLLEDNCFSHS AAHGHGRGIWGLVTLGPLACLEEDHETP SPRVFQSSPSGQEQTGGQLRNLRLKLLT QQQQAQADSVLSLEELAEGVEESDASSQ GSGESEGPVRLSRTRKALQAMYYSAFH GYVDUTMELRALGVFWKLHIIWESLRTS FSQSRYSVVSQSLLRDFSSRIEEYYNEELV TEGLQLMFDILKTSKNDSVIQQLATIFP CYGSSPIPSEIPIRKTLPARLDPFLNKK MSDVTFLVEGKLFYAHVLLVTAASNRN KTLMTNKSEQDQGSSKTIIESDMKYHIFQ MMMOYLYGGTESMEIPPTDILELLSAA SLFQLDALQRHCEIQLCSQTLSMSESAVENT YKYAKIHNAPELALFCGFFLKHMKAALL EQNMPGSSSTAATAAKCRAWIHCRTCRT PWQSACTLSTSPPGSAA
5170	13221	A	6027	2	144 LFYEMECSICIAQAGVQWLSLGLQAPP GSCHSPASACSELMMFKI
5171	13222	A	6028	163	465
5172	13223	A	6029	1	1614
5173	13224	C	603	83	349
5174	13225	A	6030	163	1917

5175	13226	A	6031	133		424	PFLCDLFHLVIFISDLSFLMV1DFVNGTFM ISFINRILLGQNURDGIVFSTDDYFHQDG YRVNVNQLGDAHDWNQNRLGLFWAKCP RIEYLARSQKT
5176	13227	A	6032	3		270	FKMESGSVAKLECRGTISAHCNLRRPGS SDPPASASQIAATTGVHHHINRLIPAFLV TGFCHVVDQAGLELLT/LVHPPRPPKVLG LOA
5177	13228	A	6033	407		720	RHNSNNFFFFFFEITERSIAQACMQWC YLNSSLQSLPPGPKRFSCLSPSSWDRCP PPCLANFVFLVETGFCHVQGAGLELLIS GDPPASASQSTGITGMI
5178	13229	A	6034	1		135	KEAPGLKKENNIVCFVCAICQINMEGKTLCS SKKDRPICKSHAFFHV
5179	13230	C	6035	96		410	
5180	13231	C	6036	108		422	
5181	13232	A	6037	2		195	CLPRFMPIILPASTSQVAGNTGAHHARLI FVFLVEVGHHVGQAQGLL/ISLPQMIIHPP RPPKVGL
5182	13233	A	6038	251		377	LGLAQIILDNPILLGGEGGLECAPTGLEPP LAYTVNLILKSKARRTEPKQKYFSSHAK NGG*REGVAA*APTGLEPLEPLAYTVNL KSKA
5183	13234	A	6039	175		393	ARPITFRLYLSLPSVQAGQREERAER/HPR VPTGPTHRREPSPVRYDNLSRHIVDLSVAP RGEESRRRCQGLVVHL
5184	13235	A	604	295		448	NQTCVCWCHACAYVSSNRVPWSIGSAIRS VCCYPLPFPALCAPCL*ISTALD
5185	13236	A	6040	1	537		
5186	13237	A	6041	1		1555	MPYSLNLAIRDTFVNASNRTLYSSSPRVL NNSDANLEINTWVAKNTNNKISRLLDS LPSDTLVLLNAIYLSAKWKTTFPDKKT RMEPFHFKNSVIKVPMINNSKKYVPAHFI DQTLLAKLSRGDSLKEPTSIAESSHRSFY RSEPSLEPEFRSPRTFGKSFHFDPLSSGSR SSSLKSAQGTGFELQLOQSIRSEGRTTTS YKSLANQTRNGLSLSYDSSLTPSDSPDFES VQAGPEPDPLGLYTSPFLSARLAQOREA ERHPRLVPTGPTHRREPSPVRYDNLSRHIV ASLQEREKLLRQSPPLPGREEEEPGLGDSG IQSTPGSGHAPRTSSSSDDSKRSPLGKTP LGRFAVPRFGKPDGLRGRGVGFPEPOPT APYLGRSMSYSSQIAOPGVSETEEVDLRP LLTPKDEVQLKTTYSKSNQPKSLOSAS PGPQPLLSSTPGRGVKKVSVGGTTYEI SEFDHICPWWVNCIGRRNRYRFLLFLS LTAHIMGVFGFGLLYVLYHIIEELSGVRT AV
5187	13238	A	6042	1		627	TRERAERHPRLVPTGPTHRREPSPVRYDN LSRHIVASLQEREKLLRQSPPLPGREEEP GLGDSGJQSTPGSGHAPRTSSSSDDSKRS PLGKPTPLGRPAVPRFGKPDGLRGRGVG SPEPGTAPYLGRSMSYSSQIAOPGVSE TEEVALQPLLTPKDEVOLKTTYSKSNQ PKSLGSASPGPQQPFLSSPITRGGVKKVSG VGGITYEISV

5188	13239	A	6043	3	2265	PTWLERGGGEPAARPOQTPQPTAPESRGP SGOASALRCRGPTARSLPAASMLGAPDES SVRVAVRIRPOLAKEKJEGCHCITSVTPG EPQVFGLGDKAFTPDYFVFDISQQEIQYI QCIEKLJIEGCFEGYNATVFAYQOTGVAGK TYTMGTGFDVNIVEEELGIISRAVKHILF KSIIEKKHHIAKNGLPAPDFKVNAQFLEL YNEEVLDLFDTTRIDDAKSCKSNRIRHED STGGNLYCGRLLPTRTVNTESMMQCLK LGALSRTTASTQMNVQSSSRSHAIFTTHVC QTRVCPQIDADNATDNKIJISESACMNEFE TLTAKFHFPVDLASERLKRTGATGERAK EGISINCIGLLALGNVISALGDKSKRATHV PYRDSKLTTRLLQDLSLGGNSQTIMIACVSP SDRDFMETLNLTLYANRARNIKKVMV NQAEMLVSKSMHFVVKSHDFPRWSSWST KPGKRUIEVEGVESINDMFHENAMLQTE NNNLRVRIKAMOETVDALRSRITQLVSD QANHVLARAGEGENEEISNMHISVKEIED LRAKLLSEAVENELRKNLTRATARAP YFSGSSTFSPTILSDEKETIEIDLAKKUDLE KLKRKEKRRKKKSVAKEDENTTDQEKK EKGVYSERENNELEVEESEQEVSDHEDEE EEEEDDDIDGESSDESDSESDDEKANY QADLANITCEIAKRLIDELENSQKRLQ TLKQYEEKLMLMLQHKIRDTLERDQV LQNLCVSYESEEKKK
5189	13240	A	6044	2	323	EDQGLYSIRMEGARGCLAKSLAL*GAGR GPFYSGERTWTLSSLPSGNCAKYQRQGW WSHA*AHNSNLNGVWHGGHYRSRYQD GVVYWAERFGGAYSLRKAAMLIRPLKL
5190	13241	A	6045	3	902	PFPCSTISYRLCPEGAAGQKKVLPPPLV PPVVPRLVGSRTDSRMRDPAPEPQRDQ TQRQOEPMASMPMAGHPADPTKPVGPW QDCAEAROAQHGEOQSGVYELRVGRHVVS VWCEQOLEGGWTVIORRQDGSVNVFT SWQHYKAGFGRPDGEYWLGLEPEHHL TSRGDHELLVLKEDWGGGRGARAHYDG FSLEPESDHYRLRQGYHGDAGDSSLW HNDKPFSTVDRDRDSYSGNCALYQRG WWYHAICAHSNLNGVWHGGHYRSRY QDGVYWAERFGGAYSLRKAAMLIWPLK L
5191	13242	A	6046	3	218	KAVSLSLVTQAGVQWLISLQSPPPRFNRF SCLSLPSWDYRQVPPR PANFCIFSRDRV SPCWPGWSPTPNLK
5192	13243	A	6047	1	297	MVVSLYFFTHPDSFPVLLCLVLCPGRIL RDCNPPLPFPVUDFCCLGLVNGMPWHSF GGKKREDNVFLHCSSHSDLGYVLLAGTA SLQDFSPFQKSPPP
5193	13244	A	6048	1	8157	
5194	13245	A	6049	1126	1355	
5195	13246	A	605	43	208	ARTLIEVIGLSHHNQKAHAMLLNAF*SSI RASP*RSGY*SSI.WNQTSRFPQIAPT

5196	13247	A	6050	1	1627	MGSRCLNPPPPAHSDDTGGKDSFGNRGAE ETGOGASACSVTSARVTCAGSEPHSHR NPGISAQVGLAPSYGAARGRRRPLALOQ SPQERRRHGVWNSTRGLPASLPGTASSQ SASATASAALPLKVTGPLARNP1PPWTA AAALATRGQRPEKGFLFPGPAPFSLGKRK RGRGRTWERRRSVSIESTCFCRGCR GAAAAGANLSQLASSORPLRERWVLYTH MAAAGAPDGMEEPMDTEAETVATEAP ARPVNCLAEATAAGAGAGTVAEADSGTA RGSLOPAWAPAQAPGDPVSQASVSNGE DSSGSADSELVDLRIUWNKTKHDVKFKL DSTGSELKQKHISITGLPPAMOKVMYKG LPEDKTLREIKVTSAGAKIMVVGSTINDV LAVNTPKDAAQQDAKAEEENKEPLCRQ KQHRKVLDDKGKPEDVMPSVKGAQERLP TVPLSGMYNKSGSKVRLTFLEQDQOLW JGTERTEKLPMGSJKINVVSDPIEGHED YIINDGRFQALPTEASYYWWVWPQTQY VDAIKADTVLGKWQYF
5197	13248	C	6051	47	298	
5198	13249	B	6052	64	362	XCVWHRRKVAVNLAALKLFRHYVVM ICYYFTRIIAILQVAVPFQWQWLYQPT GNNPYLOLPQDEEEDVQMEQVMTDSGF REGLSKVNKTASGRELL*
5199	13250	A	6053	1	342	
5200	13251	A	6054	1	485	
5201	13252	A	6055	696	3195	SGRRTPMASCRQRCPSSSTWSCPPAS WPLASSGCPSAGTITASPKIHWLMAL AFTKSISLLFHSVRALDRGAAGAPITSFES HPPSSLNFNLTBLHMVTVRVPNPPPSA SHPSVRLTVLSIHPQINYYFINPSQHPIE GLAVMYYIAHLLKGALLFTIALIJGSWA FIKVLSDLDEKKVFGIVIPMOVLANVAYI IIESREEGASDVYLWKEILFLVDLICCAGAI LFPVVWSIRHLHGCCVWHRRRMVAVNLA KLELFRHYYVMVGARLTHSGFGGITGL LHAHPFSAAAPSRGFPGPSPARLOSSP MFARAPTVLAPRLLAPLQVICYVYFTRII AILLQVAVPFQWQWLYQOLLVEGSTLAFF VLTGYKFQPTGNNNPYLQLOPOEDEEDVQ MEQVEAHTLKLLVEDIKSTSVNVFSEMJK ENMDKELQIMRMMIERRICVADPFEVT VMQDFPIDRLRPLPSVVRNEQEIRAVLY NYRNQNEKLKVRELLHNPAFCSLATTKFR RHQQTVTIPPKSSLSVVPVTPLRPACRK WKSRLLSTITSVTSVSKGVQKEDIPPAD LSDQVPTDESETRILLOQGTPTVAQMTEDA VDAERLKHLIVTPSGCGEONNMIGMTPTV IAYHYLDETEQWEKFGLEKRQGALELIK KGYTQQLAFRQPSAAAFVKRAPSTWL TAYVVKVFPSLAVNLIAJDSQVLCGAVKVW LILEQKPDGVFQEDAPVIIHQEMIGGLR NNNEKDMALTAFVLISLQEAKDICEEQV NIHINRYAATRQLMVAKISGKFSKMDKS KTAGLADCHSVLDVSNKGVLRDVASTS SGIVDWRGSQIOT
5202	13253	A	6056	1	516	LROPTTRPVFGIVIPMQVLANVAYIIESRE EGASDYYVLWKEILFLVLDLICCAGIEPLLV WSIRHLKDAASGTDGKVPVNLPKLKLFRH YVYVPPAPTCAPLQVICYVYTRIANPL QVAVPPOWQWLYQOLLVEGSTLAFFVLT GYKFQPTGNNPYLAAPGGRRGCSRW K

5203	13254	A	6057	3	528	LSCRVQVSAPPRLPVAvgTGT LTPALLHP/WLADCDVSDSSCSSLAAATLL ANHSLRELDLSNNCLGDAGLQLVESVR QPGCLLQEVYQRAGRVRVPRGLPREE GGGGGGHWAHASLLACVQPVRFQFTGLR RWRTGLQGPGEERTSTSRLRGHLRLFLL AAALDDRP
5204	13255	A	6058	1	334	
5205	13256	A	6059	225	843	WTRCSWRLRASGSCEGRRAAPPRLPCA RYEGGYQRCSCSESACGGRVRLGSSLRQ HOGSCRNTRAGMFCRQYIPHSAAASP RPLGRSRNTQMGTPLSRVLRSCRKKID/ SLKQKVTHLRGLQPHPEPELMRKEISLN KTVGRENK*LSRSEAGAGGLQEARDAA LERVQMLEQQSVPRAPDGTIDQMSAGR WWPKSWDRLG
5206	13257	C	606	892	1269	
5207	13258	A	6060	300	957	GSTKVHAETHALGCSVADSTSRTHQQL HRGAHWEGVGTHRWHTSVSVIEKLLQ EENRLLKQKVTHVEDNAKWKQRYNNSR DEYVRGLHAQLRGQIOPHEPELMRKEIS RLNROLEEKINDCAEVKQELAASRTARD AALERVQMLEQILAYKDDFMSERADR ERAQSRIQELEEKVASLLHQVSWRQDSR EPDAGRHAGSKATAKYLAADALELMPV G
5208	13259	A	6061	2	271	FFETERSRVARLECSGAIASAYCTCLCPGS SDSIAASRSHVAGITGEHHHHARLILVFVLE MGFFFHVGQAGLGLLDLVHPPRPPKVLG LOA
5209	13260	A	6062	3	376	DYSLGLPVVTGCGWGHMSNAPLRWALN PSYWGKNQNLCPESLACCCGCKCPKPRF EVTSVRSADLYLSPCLVRRCPLFRGKE KPAVGMRMPDNKGWRRALSSSLSPRVP APVAASYLTVCMM
5210	13261	A	6063	2	70	
5211	13262	A	6064	3	258	ADPPSPSFCCFFFFETESCVRLECSG AILAHCNLC/LPTCHAWVIFVLFVETEF HHVGEDGLNLL/NFMIYLPRPPKVQLQ A
5212	13263	A	6065	1	408	
5213	13264	A	6066	3	25	
5214	13265	A	6067	3	503	
5215	13266	A	6068	1	1740	MAAVVAATRWWQLLLVLISAAGMGASG APQPNILLLMMDDMGWGDGLGVYGEPS RETPNLDRAAEGLFLPNFYSANPLCSP SRAAALTGRLPIRNGFYTTNAHARNAYT POEIVGGIPDSEOLLPPELLKKAGYVSKIV GKWHLGHRRPQFHPLKHGFDEWFGSPPNC HFPGYDNKARPNIPIVYRDWEMVGRYYE EFPINLKTEGANLTQIYLOQEALDFIKRQA RHIPFFLYWAVDATHAPVYASKPFLGTS QRGRYGDVAIREIDDISIGKILELLQDLHV ADNTVFFTSIDNGAALISAPEQQGSNQPF LCKQQTFFEGGMREPALAWWPGHVT GQVSHQLGSIMDLFTTSLALAGLTPPSDR AIDGLNLLPTLLQGRLMDRPIFYYRGDTL IMAATLQKHKAHFWFTWTSWENFRQG IDHCPGQNVSGBTTHNLEDHTKLPLIFEL GWDPGERFPLSFASAFYQEALSITSV QQHQEAALVPAQPOLNVCNWAVVMNWAP PGCEKLGLCLTPPESIPKKCLWVPLAPA OTQARPRISSWPCKCLEEGWLWPRSSPN PAPSQTDSCTCRRRGTCTISNLPT
5216	13267	A	6069	3	2945	
5217	13268	A	607	187	363	MPLRLPQDVFY*IGGIGTALVGRVESGAV NYLVLGVSSVH*AVQSVALDFRFNSWML YSQ

5218	13269	A	6070	2	3078
5219	13270	A	6071	3	3204
					AGRGRLLWGGTASREPQKSAGKFPRWGA FRASRITALGPFGARSQERGPFGGNAPRPP PPRLPPAALVAAVAAAALPLRGAAAL KGGTTPFPGALAARAPREPVAAMPPRAPP APGPRPPRAAAATDTAAGAGGAGGAG GAGGPGRPLAPRPRWRLLLLLALPAACS APPPRPVYTNHWAQVLQGPAAEADRVA AAHGYLNGLQIGNLEDYIHFYHSKTFK RSTLSSRGPHFTLMDPQVKWLQQQEVR KRVKRVQV
5220	13271	A	6072	3	3002
5221	13272	A	6073	1	1181
					MEVSRAGLSTVLEAVLCPADLTAASLDA ASMPMPSHSLPVLYPGVPGKSGARPGSTQ EVVLTAAAVTQEVLTAAAVTQEVLTAAAVT AAAVTQEVLTAAAVTQEVLTAAAVTQEVL TAAAVTQEVLTAAAVTQEVLTAAAVTQEVL ENKPVSAHSSSTCARTGSPGRPLHTQSP PRGHILFGKEVKCYKFKHDILKHLTLQLT VDGIVSIPLVQLRRTALTACAEHSQDQR VVYLEHVVVRTSISHPQRGDLQIYLVSPS GTSKSQLLAKRLLDLSNEGFTNWEFMTV HCWGKEKAEGQWTLIEQDLPSPQRNPEK QGDVFCTKCHSHQSFEESQDTKSVV.AW EGWGCTHGVHCEVPKNLGIROSGKHHL KIRLV
5222	13273	A	6074	3	656
					RSAFELWTQEGLLPSPSGW/VIQSLKNL NRDTDSSRRSSPLSCLATGAGTSRHLPP LDWMSTIGCPGSQASRPESLNLNTSGFP GFPFAFHPRWWAFSPGQSHINQIPHPKSP CVGSLLQRAYTNLPLFLQFLQLRSPTKES TYSQLPFGSPGGGGPFGPRQLGLTSPKA EQPLPGFDWEQGGSDRRAGADGSGRES SGPTGTAVLQRSSCGTSC
5223	13274	A	6075	3	873
					AAEGLPPVRIPPFSETTANTGTSFTEMVQ DMGAGLAVPLMLGLESIAVAKAFASH NNYRIDANQELLAIGLTNMLGSL VSSYP VTGSGFRTAVNAQSGVCTPAGGLVTV LVLLSLDYTLSFYVYPKSALGVAIIIMG RGPAVSPRSFRNALGFLKRLDLPLCVT FLLCFWEEQDGILAGALGSLLMLLHSAA RPTKGSEGPPVLLVLOPASGLSFPAMEAL REIILSRALEVSPPRCLVLECTHVCSDYD VVLGLGELIQDFQKQGVALAFEGLQVP RLRVLLSR
5224	13275	A	6076	3	256
					HASGMKNDLVYTGVDPETLPNRNRNGDGV /PTGLSPDPQFRTRKIQASLLTLEETMKQ LELEEEFRRLKPLLNLGGSNVPHPGCT

5225	13276	A	6077	1	1966	MAEPLLRLKTFSLRGRKEKLPRKKSDAKE RGHPAQRPEPSPPEPEPQAPEGSQAGAEG PSSPEASRSRSPARGAYLQSLEFSSRRWVLG GAKPAEDETSLGPGVPGTGEFAEIWYNP IPEEDPRPPAPEPPGPQPGSAESEGGLAPQG AAPASPTTNSPHQVPGPQRQAPLHKDDE AAGTAAPPPEPARPGWQGAREGCPGCL RHQPLPPGQQRGGPRAGSRRAWGHPEPE GRLPQRGGLTGAPS WAPITHLLPALRGG SRSPGTGRTLGPQPAPVRSRGAAGASA GGHPGQGPLTASGWGGQGPNRATARG AGLPAAAGPHLPPGAGGRQAPARPGACV GPWREKAPALCPGIRAAAHGLPRICQA QQLAVRLEPQGLYVAKLTLSSEQQEAPAT AEPRVFGPLPLLLVERERPGQVPLIIQKC VGQIERRGLRVVGLYRLCGSAAVKKELR DAFERDSA AVCLSEDLYPDINVTAVPSL ALEASGALT RGDPTFTGILKDYLRELPTP LITQPLYVVILEAMARDPPNRYVPPTEG TRGLSCLPDVERATLTLLLDHHLRLVSSF HAYNRMTPOQNLAVCFGPVLLPARQAPT RPRARSSGPGLASAVDFKHHEIVLHYLL QSWMPNACPDNLQMSRLTCDPNDSHLCT CRWQTPKW
5226	13277	A	6078	2	82	
5227	13278	A	6079	1	347	FFFFFFFLETASHSVAQAGQQGHDLSS QPPPFRFKQFSCLSLPSSWDHRHKPPIPPA NFVFLVETGFHHVHQAGLELLTSSDPPA SAASOMAGITGVSHCAWPIITFKQSNSYGM L
5228	13279	A	608	514	792	DSRCPGAMACALRAPPRITNPVSAQWDP ETGSVAGEPVWWTQERNQSNALQRGNV PFCRCDRHEFTLDIAGQQGGQIT*GQEFET SLANMAKPH
5229	13280	A	6080	1	779	
5230	13281	A	6081	1	214	HPTAAIVPPGPEAGLIYTPEYEYPYTLAPA TSIPEYPIEPSGVLVWLSQRKAKNSRTV LIEPSSDLNLNTNA
5231	13282	A	6082	3	435	EPPFGGDCIPRATLES CRSRMIALMDTVGS GK1NLQEFHHWLWKNGWQK1KFK1HYD TDQSGHHOTATKMRNAV/NTDAGFLHN NQLYDIITMRYADKHMNIDFDSFICCCFV RLEGMFRAHFADKDGDGIKI.NVLEWL QLTMYA
5232	13283	A	6083	2	339	GKPTLREFTHL/WDKIKGWR EFNNTIPS QSGITIGYEMRNA/VNDAGFHLLNPPLYD INTSRTADNHMNIDEFSFICCVR/LEGFM FRAHFADKDGDGIIRLNVLEWLQLTM YA
5233	13284	A	6084	2	775	PSASDQSTWYLDESTLTDNIKKTLLHKFC GPSVVFSVDVNNSMYSSTEPPAAAEEWAC LLRPLRGEPEGVWNLLSIVREMFKRDR SNAAPLLEITDQCLTYEQITGWVWSYR TSASHSSASGHTGRSNNGQSEVAAHACAS MCDEMVTLWRLAVLDPALSPQRRELC TQIQRWQLKVIENVKRGQHKKTLERLF GFRPAVEACYFNWEEAYPLPGVTYSGT DRKLALCWARALPSRPGASRSGGLEESR DRPRP
5234	13285	A	6085	193	388	
5235	13286	A	6086	2	353	AAEAEDLSDLALCEFDAVLADFAFPHER HFYHEEHLERMKR RSSASVSDSSGFSDS ESVADSLYRNNSFSFSDEKLNSPTDSTPAL LSATVTPQKAKLGDTKELEAFIAIDLK LASM
5236	13287	A	6087	315	411	
5237	13288	A	6088	2	283	
5238	13289	A	6089	3	189	

5239	13290	A	609	1169		1335	NFASDDKFSLP*DYTIFKVNWPGAVAH A+NPSNLGGQGGQT*GQEFTSLANMA
5240	13291	A	6090	1931		3137	KMESSLKEEINMNEPNHSETMFKKAKTK AKKPKRKSRSDDSGGYNLNSDHIQSPSSSTGL LKSGBTNTSVESELLETSDFHSKIEAKVKPVYNG PRDLQSPDFTTGFHSKIEAKVKPVYNG TSPVYSRDELKWPWEKSPLKISAPQPISPN RIDETSSASWVAGSFSPVSPPPVUDLRTIM EIEESRKQCGATPKSHLGKTVSHGVKLS QKQRKMIALTTKDNNNSGLNSMQTVICIP SDAP*TVNE**GSSLHSVSSKSFDRDFLLEE KKSVTSHSSGDHVKKVVFHKGIENSQAPKI VRCSHTGTGPPEGNHNISDLPPLDSPNWPNU SSSVTTPSVAPVTFAFASIVGRGTSTKIEAA LIRSREKPLA1QIEEHA1QDLLVFYEAFG NPEEFIVERTPQGPFLAVPMWNKHGC
5241	13292	A	6091	336		410	
5242	13293	A	6092	40		921	TEPGVGHSENDKKNOKKIRKLDPKKKQ VDTVQHQGSKKGSSFLIFFSPFLIILTVEL QVGNVVAQELSILQELFWRTRASQSVTE PTAGLCLLNPGEQEMRALRGRKPLLLI PASKQDLEWTSSKLQQTCS*GF*R*KEN* QTERISTPKPHLVGSSGQGNQAGEGNK GYPVKRKRGSQVVPVCR*HDICSRKPHCLN PK/YSL\$**ATAAKSQQDTK/FNVQKSQA LYTNNKQTDSQIMSELPTIAASKRKYLS NPTYKGCEGPLQGKLQTLIAQRNKTEPNK WKNPVMGEEMP
5243	13294	A	6093	1		1960	MPPHSEQPHSPSTRQKRKVPLFVRQCPSP VIQAPKAKMDTFDGRKKQFTRFLFMSM DQLGGGRFSMQLTSFLALAVYRKDPLV ACQVQALGNLEPSSVEAHVSSHGAIADR KGWHVSLFSIQPGDCPCKALVEDSPRDR ARRQSSKEEGWCDRRRLKFHSKKGKA AAIVVKSXKYESPSFGVCFCESLNPPRLT SREKTISSKRCROCHAEEETTVVFWAK ESQTTGEQTGRGAGQRGMGMIICKACSM LPAERQDLRPTSLVISHGVSVKDRREHC QCPNYYPPLRNMSPLEHSIKCIGGGKKPQ NDSQRITITKVIVNQDFKQPDDETELSQG SRKETSEASLVITLWELVTAGQTPPLVTP RQTSQVDLQQTPTDQLQRLVLTIRRKNT KQKGHPKPKPHLYVTTIKDORTLHPKSTEY TFFSAPHPTYSKIDHIVGSKALLSKCKRT EITNCLSDHSAIKLELRKKLTLQRNSTTW KLNNLLNDYWWVYKEMKAEIKMPFETN ENKDTTYQNLWDITFKAMYSGKFMALN AHKRRQQRSKIDTLISQLTELEKQEQTHS KASRRQETTAKRAELKEIETOKTQLKINE SRSWFKEINKKIDRTLARLKKKREKNQI DTIKKJVKVISPPPIPQYK1LFLFGTGJQIN
5244	13295	A	6094	275		1839	CPSVGFLSQAQGVPGCKLLTAKDF*QQT QGFSQ/RSLQLJLTHGHRAQLQKKAISNSNE FTIMGQISEATSALFGEKESEKATLREG ARNRDRDVDSNCRLOPPGQDQDGEOKV PVKYSAGDTQANRVWSGLQQTPTDQL RVLTVRRKTNQKQGHIPHQNPICTSASSK TKEIQTIREYHKNLYANKLENLEEMDK PLDTYTLPRLNQEVESELNRPITGSKIEAJI NSLPTKSPGPDAFTAEEFYQWYKEELRIK YLGQLTRDVKDLFKENYKPLLNEIKGH KQMEEHSMMLMDRKNQYCENGHTAQEL EKTAKFIVWNQKRAJAKTILSQKNKAG GILPDFKLYYKATVTKTAWYRQNRDI DQWNKTEPPEIPIHYNHLFDKPDNEK WGKDPFLNKWYWEWNLWAICCRKLKLDSP LTPYTKINSRWIKDLNNGRPKTIKTLLENI GNTIQDIGHMGKDFMTKTPKAMATKAKV GKWDLILKLKSFCTAKETTIRVNQRQPTEW

						EKIFAIJYPSDKGLISRI
5245	I3296	A	6095	78	1986	EKTKSASDWCT*K*RGDGTKLNTLQDI IQDNFPNLGRQANIQIQCIMPORYSSRR ATPRHIIVRFTKVKMKKEKILRAAREKEIQ TTSEYKYKHLYANKLENLEEMGKLLDTY TLPQRNQEEVESLNRPIAGSEIEAIDNSLPT KKSPPGPDGFATKFYQRHKEELVPFLLKQ FQSMKEVILPNSFYEAISILIPKPGDRDT EKENFTPISLMIDAKILNLKLANRIOQHK KLHQDQVGFIISGMQGWNFNEHKSVNVIH HINRTKDRNHNMIISYDAEKAFTNKJQOPF MLKTLNKLGIOLTRDVKDPPKNEYKPLL NEIKEDTNKWKNIYPSWIGRNIWEIALP KVSLERERQHDQTHVQSOLEKLDLLEQE YNKLTTMQALAEKMQLEAKLHHEELEEQ ERKRMQAKAAEHPRCLYLAIAFSALKN LQDKIRRLERLRIQAESVKTLSRETIEYK KVLDEQIJOERENSNEESKHQNQLTSQL LAAENKCNLLEKQLEYMRNMKHAEMB RTSVELEQTPLLIPRQRGSRVDLQQPTD LQLRVLTVRRTKTNKGKGPHQNPICMSP SSKTKBEERSSSPITERSWTENDFDELREE GFRRSNYSSELKEELQTHGKEVINLEKKI RMAN
5246	I3297	A	6096	870	1860	TRKSRRNG*IPGHIIHPPKTKQEEAESLNR PTGSEIEAIINSLPTKKSPTGDFTAKFY QRYKEELVPFLLKLFSQIEKEEILPNSFYE ASILIPKPKDRDTTICKENFRPISPMNIDAK TLNKTLANRIOQHKKLIIHDQVGFI/HC NARLVQHMQINQRNRPAYZ~NQRQKPHD YLNRRCRGL~ONSTALHAKTSQ~ISVGSS GOGNQAGEGNKGKGYISRKRGSQMSLFAE DVIIVYLENPIVSDQNLKLISNFSKVSGY KINVLNSQAFLYTNRNQTESQIMSEVPFT IASKRKYLGIQLTRDVKDLFKNEYKPLL KEIKEDETFHAGH
5247	I3298	A	6097	453	545	
5248	I3299	A	6098	1	235	
5249	I3300	A	6099	3	706	
5250	I3301	A	61	1	1194	
5251	I3302	A	610	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLVVYWPWTQRFFDSFGNLSSASA1MGN PKVKAHGKKVLTSLGDAIKHLDLKGJF AQSELHCDKLHVDPENFKLGNVLTV LAHFGEKEPTPEVQASWQKMVTGVASA LSSRYH
5252	I3303	A	6100	368	798	LSTTYMHPIQ/RAPRFIKQALRDSQRDLD SHITIMGDNTPLSLDRPRTQKVNKDIQ E1NSVLLHQVDLJDYRTFPKSTETYIFFS APHRITYSKIDHIVGSKALLSKCKRGEIJT KIKLELRJKKQTQNRSTTWKLNNLLND Y

5253	13304	A	6101	1	666
5254	13305	A	6102	412	681
					GDJJPCKSQPLNHFHVVFKMR*GSSRPG RGPEIRCFSPAARLLTAHQWPQPLWAI FQQVALLPHAGGAHDHVILFPSPVKAT EKIVG
5255	13306	A	6103	489	585
5256	13307	A	6104	1	1474
					MDMLDKGMIQVPVESLECPHEFVQEPV LPSELRSKEQEPWNQPSLDLDPSEFATY'M ACSLMLPAERQDRLPTSLVISHGVSKDR REHQCQCPNNYPPRLRNNSPLEHSKICCGK KPQNDQSQRITITKVVINQDFKQPDTEL SQCSRKESEAISLTLLVELTAGQTIFQ DDRMGTAPVYSSRRRRRVISACPTIE PPLVTPRQTGSGVDLQQTPTDQLRVLVTI RRKTNKQKGHPKPHLVVTTIKDQRTLH PKSTEYTFSAHPTYSKIDHIVGSKALLS KCKRTEUTTNCLSDHS AIKLELRKKLTLQN RSTIWKLNNLLNDYWWYKEMKAELK MFETENENKDITTYQNL WDTFKAMYSGK FMAILNAHKRKQQRSKSDITLISQSLTELEK QEQTHSKASRQETT TKIRAELEKEIETQKT LQKINESRSWFFEKINKIDRITLARLIK RENKNQDITIKKIKVISPPIPQKYKLLFIL GTGTQIN
5257	13308	A	6105	1	903
5258	13309	A	6106	803	1184
5259	13310	A	6107	1458	1568
5260	13311	B	6108	24	2456
					MVGSSGDLKLGLLHPRVRVGNEYVTKG QSVEQVVFAVGALAKATYDRLFRWLVS RINQTLDTKLPRQFEGVFLDIAGFEIIEFN SIEQQLCINFNEKLLOQFFNQHMVFVLEQE EYKREGIDWVFDFGLDLQPCIDLIEKEE RLKPSRKITKKHTKRTASLILHAMICC RSLNNSKTKNTKCLNSINQRLK1WLSQK DLMCGTAGRCCTLHGTSQLNTIAHHVVL ALAGSPKDADDTSIYMPYQKHLYCIVD SECKSRDVLSQSYFDLGLGELMKFNVDAFK RFNKYINTDAKVFLLQINSSLVDSNMLV RCVTLSDLRFENQVDMKAALLSIPGFW RLCKLATRKVSESTGTASFLQELEYWT WLDNALVLDALMVRVANESESEINQFW FEOHGLVSGAEEKAPGTTIDQAPRIVRW DLTRTOAQWQSAMTWSMSAFTEITFLTE RDQKSQKWSGIPQLLKLHLHTSHLHSDFV ECONILKPLLVIPROTGSVGDLQQLTLDL QLRVLTVRRKTNKQKGHPHONPICMSPS SKTEAKNLDKRLDEWLTRNSIEKTLN DLMELNNTMARKLRLDACTSFSSQFDQVE ERVS VIEDQMNEMKREEKFREKRKRNK QLSLEIWDCCVKRPNLRIGVPSEDGENG TKLENLTDQIQQENFPNLARQVNQI(QEIQ RTPQRYSSRGTPRHII VRFTKVEIKEKIL RAAREKGRVTHKGKGPRLTAVLLAETLQ ARREWGPINLKEENFOPRVSYPAKLSF ISEGEVKSFDTQKMLRDFVTRTPALQEL LKEALNMERNRNRYOOLQKHAKL*
5261	13312	A	6109	82	1208
					LVEGKLITNRKNHITKTPSVHIIHQRPKC GREMWGQSPHTESTLGGHHLVELWEIGH CPLDPRMVDPPTACTMYLEKPTQTLNASL /WKAAARSQVPGGGKGKGTKKSETBQATI REYYNKHLYANKLENLEETEKFLDTYI PRLNQEEVESLNRRRTGSKIEAJINSLPTK KSPGRDGFTEFYQGYKEELVPFLKLF QSIEKEGILPNFSYEASILIAKPGRDTATT TKNFRTISLMMNDAKILNKENIQQOHNIK KLIHINQVGHIPGMQGWFIHKSINVIHH IKRTKNCNHMIIISIDAGKAPDJKIQQPFML KTLNLKGIDGMYLKJIRAJYDKPTANIIJN

					GQKLEAPPLKTGTRQGCHSYSTLTTPIQH SV
5262	13313 A	6111	3	552	HSLFGTSEVINKLRSRSPDAMGH/TPEEDK ATTSLWGKVNVEDAGGETILGRLLVVYP WTQRFFDSFGNLSSASAIMGNPKVKAH GKKVLTSLGRCHKESTWDDLKG/TFFAQQA *SELHCQQACMWDPPEELSSFLGKCCVV TRFWAIPFAKEFHPWRLQGPGKSRRW QKMTVG/VASALVPSRYH
5263	13314 A	6110	1261	2396	LNALYFLLPDPCPGN**TAKSTNKEEK REESNRNCNKK**SINITNPTHQ/TITIREYY KHLYANKLENLEEMDNFLDTYTLPRLN QEVESELNRNPTIGSEMEAIINSLPTKSPG PDGFTADFYOSVGGSGQGNGAEGEGNK HSIRKRGSQIVPVCR*TDCISRKPHRLSP SP
5264	13315 A	6111	1	819	MCHSAIFTVLQPPVVIPIRQTGSQVDLQ QTITDQLQLRVLTVRRTKTKQKGPHQH PICMSPSSKTKATFEDSWHFAERIIPDP NVKLRLKEELTLNNRQYVVLCEHRKDK YQALCNYYGSITIQQAIIFCOTRRNAKWL TVEMIQDGHQVSSLGEL/TVEQRAPFIQ RFRDGKETVILITYNVCARIGDV/KQVTIV VNFDLPLVKQGEEDPYETYLQRIGRTGRF GKKRLAFNMIEVDELSLMIQD/HFNSS IKOLHVAEDMDEIEKIDY
5265	13316 A	6112	1	1068	
5266	13317 A	6113	3	655	LLSNNDQRCSSIFNKTREKASATRVYIVLD NSGFELVTDLILADFLLSSELADEVHFYG KTIWPFSVSDTTIHDFNWLIQEVKHNSHK WMSKCGADWEETYIKMGKWWVYHNHF PVPHHEYCAMPQVAHDLYAELQKAHIL FKGDLYNRKLTGDRKWEFSPVPHQALN GFPAPLCLTIRTLKAEIQVGLQPQGQEQL LASEPSWWTGKYGIFQYDGPL
5267	13318 A	6114	3	225	GACGRPPPFPRFLPRGAPPPAMAAPFSPP PASAPGAAPTFPPSLGPWAHPALFLTGIN LTCFSKEREKEAQSWY
5268	13319 A	6115	2	624	
5269	13320 A	6116	2	594	NRGSCHRGILKFEGAFKYKMGQIEIDDQV EGULQYLASRYDFIDLRDVGIGHGWSYGG YLSLMALMQRSDIFRVAIAIGSPVTLWIF YDTGYTERYMGHIPDNEQGYYLGSVA MQAEKFPSEPNRLLLLHGFLDENVHF/AH TSILLSFVLVRAGKQYDLSQSYPOERHSIRV PESGEHYELHLLHYLQENLGSRIAALKV I
5270	13321 A	6117	4	310	
5271	13322 A	6118	1	601	LQKWSLEYIQEIAGRCTVPVEVGSRYTD EEWSQTLMTVNEFISKYYVNEPRDVGYL AQHQLFDQIPELKQDJSIPDYCSLGDGEE EETITNAWFPGQGTISPLHODPQONFLVQ VMGRKYIIRLSPQESGALYPHDTHLLHN TSQVDVENVPDLEKPKFAKAPFLSCLSP GEILFIPVKYWHYVRA LDLSFSVUSFWWS
5272	13323 A	6119	3	306	EIAFS/DRAED/FRKLGCEVLGVGSVDSQF THLA WINTPRKEGGPLNIPLLADVTR RLSEDYGVLTDEGIAYVCPAGWKPGS

					DTIKPNVDDSKEYFSKHN
5273	13324	A	612	251	488 GG WITRSGIDRDPG*HGE*PVY*KKLAG RGGGRLLKSQLLGRLRQENGMSGRAC SEPRESHCTPAWVTERLLLKKKK
5274	13325	A	6120	1	774 PTRTKGFAQGSGLAENAGPRVVIRAS RGLPTQLSVMASGNARIGKPAPPDKATA VVDAGAFKEVKLSDYKGKYVVLFFVPLE LHFCGAPTEIIAFSNPCRGRSLKLGL* SAG ASRWDSUHTHLAWUNTPRKRGALGP LNIPPAALLNGEPERLV*GIYGRC*KTD* G AFAYKGASLFIRLKGGCPAKITLLIDLP VGTLPDDEGFCGVLOGLSQVHKTSGG KFVPAIGWKALPVATD*APTWMARKY FSKHN
5275	13326	A	6121	3	306 KNWPPPRFFF/YKGPPPSSSSSSSSSSSSSSS PLTFFFPSSSPGVCPPLKGSSSSSSPPKPG RPFPSSSQKGKGPFFKFPNFPKNSPITPG GAPLKPFWKNF
5276	13327	A	6122	1	200 PPHNVPRRWSANLYLTPTSNMVLTAIAL IGVCVFILAIIGILHWQEKKADDREKRQE AHRHFIDAM
5277	13328	A	6123	2	297 VSPFLVLIIRRQSSRHLSIYLQAPFV*MA GCLLETGSHV*TYKDLHVTTRHLPKLW KTSTLNFQVARSS
5278	13329	A	6124	1	211 DYLECEKHQYRQLCGYLQPCQGSPCWT PRAGSGRAALRTGMAVLARAACQRRLRA RLPPQAQRARAAGALRERGLCAPPRP APAGAGRQSPQSGELRVPSSTSTCRSC WSARPWGSRRGRAVPORRRNAATATGSP RPLRRLRPAASPRGAASERPWNPDPPR PRTARSRALNLRSSKVNATLVCPHCKET EAQRGVWTGETIPVRTCFPLJGQQSHS MEVAEWTDKAVNHWKAPRNTALKMT QTYNDPAD
5279	13330	A	6125	1386	2151 MRNKAVGQARAPPALAGWAAPFPKLL DGRPQVFPEMPQPVAGCTATGPREKLG GPGRGRVVAASVQLRMNEMNLSPVGM EQLTSSSVSNALPVSGSHLGLAASPHTISA IPAGILSYLADRPPPOYIHPNINSIVDGT ALISITNPNALDPYQSNGNVGLEPGIVSI DSRSVNTHGAQSLIPSDGHEVALDTAIT MENVSRVTSPISTDGMAEELTMGDVAG EHSQIPNGRSRSHEPLSVDSVSNNLAADA VGHGGVIPMHGNGLELPVVMETDHIAS RVNGMSDALSUDSNHTVAMSTNSPGR ESSAVAPVASHFSVHVFLFSFIWVSPADEE TLGESLLGLTVYGSDNDQDPYVTLKDIEQ YEREDFLIKPSDNJLVCGRAEQDCNLEEV HGNYIAVGNMTPVIEVWDLDIVDSLEPV FTLSKLSKKKKKGKKVKKLINI
5280	13331	A	6126	1	1337

5281	13332	A	6127	I	2412	MKMNLLSPVGMALQTSSSVSNALPVSGS HLGLAASPHTSAIPAPGLPVIAPNLGPFLS SLPSALSMLPMPGIGDRGVCMGLPERNY TLPPPPYPPHLESSYYPTILPGILSYLADRPP POYIHPNSINIDGNTALTSITNPSALDPPY QSNGNVGLEPGIVSIDSRSVNTHGAQSQL HPSDGHEVALDTAITMENVSRLVTSPISTD GMAEELTMIDGVAGEHSQUPNGRSRSHPL SVDSVSNLLAADAVGHQGVIPMHGNGL ELPVVMETDHIASRSVNGMISDALSDDSIH TVAMSTNSVSVALSTSINLASLESVSLH EVGLSLEPVAVSSITQEAMGTGHVDVS SDSLSFVSPSLQMEDSNSNKENMATLFTI WCTLCDRAYPSDCPEHGPVIFVPDITPIES RARLSLPKQLVLRSQSVGAEVGVWTGET IPVRTCPGPILQQSHMSMEVAEWTDKAV NHIWKIYHNGVLEPCINTTDENECNWMM FVRKARNREEQNAVYPHDGFKIFFCCTSQ DIPPENELLYFYSRDYAQOIVGPEHPDVH LCNCGKECNSTYTERKAHLTSIHNNH.LPT QGHSGSICPSHSKERKWKCSMCPOAFISP SKLHVYFMGHHMGMKPHKCDFCSKAFSD PSNLRTHLKIHGTQKNYRCTLCDKSFTQ KAHLGVHMVHGTGEKKNLKDV/CVDK LFYGGSRDQGRHVLIHVTQERQIKCPK CDKLVFLRTNHULKKHLLNSHEGRKD/VVC EKCTKAYLTKVHLTRHLKTCKGPTFS VQAPEEEEEEODSEEDELDADSVCGETDRI NSAVYSADESLSAHK
5282	13333	A	6128	I	1767	MQALIPPLESGSGMTQTSGVSTETGDVVK DMGVNNQSKEGRCPWKDHEAAPWEISK PKKRGNEGKSKKFKNNYSTQPARMERK EEILNPPFEGKDGTGSIPHKSKEIGFTTP KMDHSSFSHTPDTPTEAVDRKGNNFQ VNFBELGTJGENKUSTVKASTVTEPEAK VTDVSCQEIQQGAGFVPSVVSSEENKTTDA ANRYTAVADKPSERSNDOKSSGSAACE KLPTPTQVVKEGEDSFSPDTLAKNGQIEAP AQISKSLMVNDNTKDGVPQGERPKGPSA VVPSTSTGGVALPITTAEJTVNHHGDHSL KNKAEADSMKNEAAGIDEGHVIGESESV HSGASKHSVEKVTTELAKGHLLPG/CASR RPEPTRRGQSPPR/T/HADRGNPFAJPPV EEKETKEGSVAVQIDPLLEDKAQKLSCF EDQNAQDRNSKGSQDSLNLKVKDFTLSSL KSENDIKLKEISLACKITTELESVSLPTPEIQ SDFLIHKVEAPPSEVADTLVIMTASKGV RLPEPKDKILETPQKMTEKSESICKPGEKGK KEDKSRAEAPMKGYMRPTKSRGLTPL PKSTIQUEERHKQLKSAGMNLFWGNVC ACG
5283	13334	A	6129	893	3822	GKGHNATVNLISFLQRQPQVGSLVHPVV G/HGNQRKSHVHDSEPLQPRDLGREAWDI ESTPIMMKKKKKPKQKRYSQPRAGGP SDDDNADPKPKGHPPFAADTQKSGVLPQS PTTMGTEYGLVSGENLKRCLVNSAAR LVAENFVSESLRIPLYPSEEAPKTAISSQS KLREEEESKSNSKSVLNQDQKLLKQHE YKPOPAFHLLTVPDKSQSVGPLNLKGPL AEVSAVNVEITPLDIRLKEGCSFFLDQEV MGVV
5284	13335	A	613	5987	6461	GVNKSWNHWFLLFLGVRREAHHAGVVRT PHHDLVLLPRGMAACALGACSLGAVAL PGHPVQAGVSVHGCGSSGTTYRGERHRV GRMRQKNRLNPGGGGCGERSRHYTPA WATEQNSVSKQNKTKQNKKHRLVHWN RKKWIYLLFALKKYKMSLMLCRKS

5285	13336	A	6130	I	1965	MQALIPPLESGSGMTQTSGVSTETGDVVK DMGVNNNSKKEGRCPWKDHEAAPWISEK PKKRGNEGSKKFKNNNYSTQPARMERK EEILNPPFEKGKDGDTGSIPHKSKEI GFPFP KMHDSFSHTPDITPTVEADRKGGNFQ VNFDLGLTGENKISTVKASTVTEPPAK VTDFVSCQEIQOGAQGPSPVVSSEENKIDIA ANRYTAVADKPSKRSNDGSKKKVNNS PEKHILENKIDATKIHVPMEITGDQQIEG WPIWTKIEIL/RPTCPRTPSELINKSSPLEV LESAACEKLPTPTPVVKEGDSDPDTLA KNKQELAPAQISKSLSMVDNYTTCGDPVPG ERPKGOSAVVPTSTGVALPITTAEJTV NIHGDHSLSKNAEALADSMKNEAGIDEQ HVIGESESVHSGASKHSVEKTELAKGH LLPG/CASRRPEPTRRGQSPPR/T/HADRG NFPAPHVNEEKEKTEGSVAVQVPPDLLED KAQKLSFCEQDNQAQDRNSKGSDSLNKK VLDLTLSPKSENNDLKEISACKITELESV SLPTPEIQSDFLHSKVVEAPPSEVADTLVI MTASKGVRLLPEPKDKILETPQKMTEKSE SKTPGEGKEDKSRMAEPMKGYMRPTK SRGLTPLLPKSTIQEQRHKQLKSAGMN LPWGNNVCACGF
5286	13337	A	6131	1632	2783	VILLSKSLIQTQENFFFFFQSFLVALQAQGV QWSNPNCVSLOPPPPFNGFSCLLIPSSWD YRRVPCCPAINFVFLVETGFHHVHGQAGL ELLTSGDPPTSASQSAGITGVSHHAQPAE DIANNVTLLFFPLHLFL
5287	13338	A	6132	240	564	NGWEFKHGPSPWFGFFFFFTESRSV ATRLECSGVIPAHRNLLCPLGSSDSPAAS QLTGTGAAHHHARLIVFLVETGLRLHS QAGLELL/NLIIHQPNPWFQELGLQA
5288	13339	A	6133	I	1898	MAENGRGLCKAVAAPSPPAWRRDNTEA RGGLKPEYDAVVIGAGHNGLVAAYLQ RLGVNTAVFERRHVIGGAATVEEIJPGFK FSRASVYLLSLRPOQYTDLELKHHGLRLH LRNPYSTPMLEEGAGSKVPRCLLLGTD MAENQKQIAQFSQDAQVFPKYEEFMH RLALAIDPDLDAAPVDMAAQPQHGSLLQR MRSLSLTLPPLKAGRILGAQLPRYYEV TAPITKVLQWFESEPLKATLATDAVIG AMTSPLHPTGSGYVLLHHVMGGLEGMQ GAWGYYVQGGMGALSDAIASSATTHGAS IFTEKTVAKVQVNSEGCVQGVLEDGTE VRSKMVLVSLNTSPQTFKLKLTQEWLPEEF LERISQZDTRSPVTKINVAVDRLPSFLAA PNAPRQGQPLPHHOCSHLNCEDTLLLHQ AFEDAMDGLPSHSDLGSAKHTPKDRKC IPGEKSEDEGRPVIELCIPSSLPTLAPPG CHVVSLLFTQYMPYTLAGGKAWDEQERD AYADRIFVDICIEVYAPGKDSVVGRDILT PPDLERIFGLPGGNIFHCAMSLLDQLYFAR PVPLHSGYAQLQGLYLCGSGAHAPY SELTSLTKRVPIQHVHWPQPLRLWAVDLA PPOTFGAGSLEGARY
5289	13340	A	6134	163	513	CLLFFLTPSHFSVFGTIPVFDNCNRVYAPGF KDSVVGDRDLTPPDILERIFGLPGGNIFHC AMSLDQLYFARPVPLHSGYRCPLQGLYL CGSGAHPGGGVMRAAGRNAAHVAFRD LKSMS

5290	13341	B	6135	1	720	MGCKHWMTGGRARKEGKDDSYMQTQ WLHRAFAAAPETCPPLRDIITQGRDLYI LGTPEKCVFWGGAEREVWRERHQREPG LRAAFAGOLEFPAGVGLAGPALGAAGQ PCWPRNGEGLSTRASGCGCCTGSSSSAS PPVLCISIHQAALAFRLGRSRDLQRAMP EPPTPSMGSACAAGASPTSTTPCSKEPSID HPRAEEECETARDWQAAPPAAVLVRDPL GEASWAPESGGDMESLYI*
5291	13342	A	6136	133	311	QLHADEVSRFATHA/GVFWCDHGLFQP OPPPKLKRSSLCLSLWSSWDYRHAPPHAII CLLL
5292	13343	A	6137	1	1098	
5293	13344	A	6138	2	241	PFRFKRFSCLGLSSSWDYRCTPPRSANFC NLVEMGFHIVGQAGLELLTSDDPPTLAS QSAGITGVSHHAGPHRFLINY
5294	13345	A	6139	3	333	YFISSHFIUSFHVISFHLLITFHLLISFH/HIFI SSPHFISSSFHLIFSH/IHHILNSPHLISSSFH HFISSFHLLISYLFQF/HFHYFMSSHLLISSF HLLTSHH/INFHISPFH
5295	13346	A	614	180	345	GLSFHMLKKVYKYMCIYMYICHTHTHT HLL*MYINRPSLYDQFLYIYQLFLYIQLSQLDC
5296	13347	A	6140	3	137	GVSPPWPWGSRAPDLK*SAHLLGLPKCW HYRRPHDCGQAPHLHC
5297	13348	A	6141	967	1386	KKKKIEIGHQLRWI*REFFFEEFEETGSIS VPQAGVQWCDHGSLOPQSPWAQRSSNL SLPSSWDYRHLPPCLANFFFIFVEM/GLT MWPRLVLSNIGPSDLPAVSQ/SAGITGV SHRNWWPMKIFFFOOTASHVAQAGVQ WCNLGSLQALPPAFAMFPSCLLPQQPSSW DYRSLPCLANFC/CFGFLVETGVSPECWPG WSRTPDLR
5298	13349	A	6142	278	643	GROERGERERSSRPLGGRKCO/IWLAVN AQOKKLALQVEAKAVEVGVPALGILV VAGCSFAIRRQYQKSDSLKOPQNPVLEA AVGVVPVEMSLPHASSSLTLVPLRRLSD PFLCPFLSLAKV
5299	13350	A	6143	18	479	QRTFCKGWKGAAKILIDLNNFLCKLE OKGTDLULVIAMENYNGLSKKGVDLPG AVDLLMASEKDIDQLKPGVEWDVDMVF ASFHIVASNVHEIRKAIAHANWSKVPTCPP ELGSYLPRGTEETHSYFYISYSDDQIICKP LHYSYGRNYDYL
5300	13351	A	6144	3	282	RSPPA/GSPPSAPAPRLPPPAPPPALPFP ASRPTPFPPLPVSPLPVLPSSRSLSLPPAELF SFFCIGVGLLHTRALSIAAYIKAGAIMQ LYC

5301	13352	B	6145	26	2671	MAAPGAPAEGYVIRTVLQQILQDLS SLALPSEAKLKLLAGSSRGQQTVKSLRI QEQQQTALKGRSSVGNGNLIRTSV PEYYINLHLVENDFVGGRSPVPKTYDM LKAGTTATYEGRWRGRTAQYSSQKSE ERSLRHPLRRLIEPDSSPERAHYTHSDY QYSQRSQAGHTLHHQESRRAALLVPPRY ARSEIVGVSRAGTTSRQRHFTYHRQYQ HGSVSDDTVDSDIFANPALLTYPRPGTSRS MGNLLEKENYLTAQGLTVQVRPLVPLQ PVTQNRRASRSSWHQSSFHSTRTLREAGP SVAVDDSSGRRAHLTVGQAAAGGSGNLL TERSTFTDSQLGNADMEMLERAVSML EADHMPPRSISAAAATFQHECFOKSEARK RVNQLRGILKLLQIJKVNEDVQRAVC GALRNLFEDNDNDNKEVAELNGVPRLL QVLKQTRDLETKKQITDHTVNLRSRNG WLVKAVALACNPSTLGQQGGRITRSGVR DOPDOHGLLWNLSSNDKLNLMITEAL LTLTENHIIIPFSGWPPGHDYPKANGLLDFDI FYNVTGCLRNMSSAGADRKAMRRCD GLIDSLVHYVRGTIADYQFDDKATENCV CILHNLSYQLEAELPEKYSQNIYIQNRNI QTDNNKSISIGCFGRSRSRKVKEQYQDVPMP EEKSNPKGVEWLWHISIVRMLSIAMI VRNNTQEAISLGAJQNLITAGSGPMPMTSV AOTVVQKESGLQHTRKMLHVGDPSVKK TAISLLRNLSRNLSLQNEIAKETLPLDVSH PDTVPSTDLLIETIASACYTLNNIQNSYQ NARDLNTTGQKIMAIASAGDAYASNKA SKAASVILLYSLWAHTELHHAYKKQAQFK KTDVFVNSRTAKAYHSLKD*
5302	13353	A	6146	2	355	FYFLRWSFTLIAQAGVQWRDLGSPQPLP PRFKQFSCLSLNNSWDYRHAPPRAFNFL CFLVETRFLHAGQAGLELLTSGDPPTLA SQSAGITGASHRNRPVQSILRLEGLELTTIV QPPT
5303	13354	A	6147	3	277	FFILETEFRSTQSPRLECSGAISAHCNJQLP GPSPHSASRARAETITGLCHCHARLIFVFL VEMRFHHVGQSGLELNRQAICLPRPPKVL GPOA
5304	13355	A	6148	20	363	LHHFFPKPICPAHFSCAICHWPQPHPTCACT QAHMCKPKH/THTIATH/TICVLSGTHP WVHTGVCARSSSS/PSSSSSLRYTRQV HALLITAQPQRLKASEPTPAQLQPGRQE GLTG
5305	13356	A	6149	3	301	STATWAGVQWCNLSLQLPLPSGFKPFC LSPGSGWDHRHLPPCPANFLYCFCLVEM GFHYVQGAGLKLLT/S/GDLCASAPQSGAG STGVNHRVRLGLLIYIP
5306	13357	A	615	173	338	GLSFHILKKKVVKYMCIYMIYIHTHTITH LI*MYINRPSLYDYQFLFYQLSQLDSC
5307	13358	A	6150	15	352	DSIFTLVCACEHINFLRAQGHWGCVIDCL HYNKQAVTGDHSSYSAERSSTPENGGR GTRBQGERGGTWGRGGQ/ERPSIPDR OKNQGRGGGGNPLSGRGKVKAITHILLII
5308	13359	A	6151	20	415	
5309	13360	A	6152	24	156	SSFKVMELCPVELVGSWSH*LQE*SRGPLR *RTHSSRYMVKRQE
5310	13361	A	6153	128	880	
5311	13362	A	6154	310	719	LRTYPTIRGPVREEKWGYVOTESRSVAV AGVQWHICFTELRGFLVSLTSRMKPRTL AVSVALPKVARLEVFSDDVQRWGFHhv GPAGLELLTSSDLPVSAQSMAGITGTRH RAWPWEHVVMDMFVHLQTEGNLLD
5312	13363	A	6155	1	169	FFETGSCSVAQAGM/QCSDHGSLOPCPG SWDPPALASQSGAGITSMSHHNHPKLF

5313	13364	A	6156	525	972	NHLGGFKQILMPRLHPMPMKSFLGVSSARQLYFFFFFFETESHISIVQAGVQWRDLGSLOPLPGFKQFSCSLSLPSWNYRHTLPRPANFLYFLVETGFHCAQAGLKLLSGNLPALASQSARITGMSHHARLAVVFFKALLSSSRTRI
5314	13365	A	6157	300	500	DGLCSKQT*#NGWFPSITNPPIKTAOHOQGKQKHPHQGNRTAPSSSVSYMKRCELLPKGTOLEVYRESG
5315	13366	A	6158	1	1889	MGLLQQGLLRVRKLLLVVCPLLLLLPVLPVHPSSEASCAYVLIVTAVVWVSEAVPLGAAALVPAFLYPPFGVRLRSNEVAEYFKNTTLVVGIVCAAIVEKWNLHKRIALRMVLMAGAKPGMLLLCFMCCTTLLSMWLNSNTTAMVMPVEAVLQELVSAEDEQLVAGNSNTEEAEPISLDVKNSQPSLEIFVNEDRSRADLTLMHNENLNQVPSITNPVKTANQHOGKKQHPSQEKPOVLTSPRKQKLNRKYRSHHDQMICKCLSLSSISYVSATIGOLTTIIGTSTSLSIFLEHFNNQYPAAEVVNFGTWFLFSFPISLMLVVSWFWHMHWLFLGCNFKECTSLSKKKKKREQSEKRIQEYEKLDISYPEMVTGFFFILMTVLWTFREPFGVPGWDSSFEKKGYRTDATSVFLGFLLEFLPAAKPCFGKNDGENQEHSLGTEPITWKDFQKTMPEWIVLVLVGGGYALASGSKSSGLSTWIGNQMLSLSLSPFWAVTLLACILVSVTVEVSNPATITIFLPLCSSLSETMHINPLYTLIPVTCMISFAVMLPVGNPNAIAVFSYGHQIKDMVKAFLGVNVIGLVVVMVAINTWGVSULFHLDTYPAWARVSNTDQA
5316	13367	A	6159	41	570	SLHDSTADSIRTTCGQVISTLKAHYLRRTFQHILEADGEDPSYKUEFWRNYSIMDAVDMAIAWEELKPALMNSMWKKIWPCEVQAQRFSQADNIAQLOQNINTLARNVAFEEVAEAAVDQLLQSHEDLSNEELMRLEQELAVGEEREDDGFWALWQLTTGRSLAALSHFEAGL
5317	13368	A	616	363	412	
5318	13369	A	6160	3	367	HASAHAFGQLSCSVSKLMRDVCGQPCFSPRGMVLYLQWGRKRYSRGNNSWWIKEKVWRFSTACSVNEWKFADILSMADHILKKCSYNVEKREEAPLPCMVCVTRELTKEGRSLSRVLKPVL
5319	13370	A	6161	74	295	AEDKSQMLLDLDRWSYIRTSSSADRSHA SGRJAHKWSTVDRNRPYRDSNNELAEKEQLS*ICSCSRVFFKA
5320	13371	A	6162	32	342	
5321	13372	A	6163	184	556	
5322	13373	A	6164	251	1133	PNDSKRLILFRTPWPQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLCMLLDVAVSPDDRFLITAARDFKMRVSWAAAPHSIESFCGLGHTEPVSRSVPVPSHARAIISSGDGTLLRWHEYRSGRQPALLSPWPVCSSVDPQAPQKFAASRIAFWCQENCVALLCDGTGPGHLHPAGRQTAVGVQAAAGVPAPSVPGRGFRGDPGAVGAPGLARKPPWPCSYRHVGDQWQSVPESTVLKVKSGVLRGNWPMRLCRRRQLSVAWSYKAHVPIT
5323	13374	A	6165	1	391	APMAGCLSFYLIQJQGQGDKGFLSYTRDGAGLYKEIWKAADRPGNAAWNLAEGEFNAPYMEVIFEDAENGPKGGYVALDDISFPVHCQNQTELFSAVEASCNYEQDLCNFYQDKKRPGWTTRVKGPML

5324	13375 A	6166	3	1459	KLPPPPPGCTFQEDECFTF/AGEKKPEQL AQEEGVETPTTSYTGPKGDHTGVVVSSHL ASECPGLNSDALLPKKICSLVLLT'SFL AASADSGTMILRWGCLLSKJMSVGLV PSIESSLGLQMAAFLLHMAFPLOQCTPD MYLLLTVGNRNRHGRQKQIKGALLYWTF TTCRHICARNLNILSTTCKDKVGGEFAKLS KUELEATKSIGBPEPMHKYHCEFLKNLRE KEKQLEDLLATKIASKVAKLGILLGMPT LEIGGKEGGGWGTGYWLRAEKEDGIDL CIEGSEGLNTEKIVIPVMQERNSININKD VHSETPAKGHQLQRPRVDKSMKMGMRN QHKKAENSKTQTSPKDPKSSPAREQT CMENEFDLKLTEVGFRRWAITNSPELKD VLTQCKEAKNLEKRLDKLLTRITSLEKS MNDLMELKNTGRELCEAYTSINSRIDQV EERISEIEDQNLNEIKQDDKIREKRVKRNK QSPKKYGT'L
5325	13376 A	6167	1	393	
5326	13377 A	6168	1	1137	
5327	13378 A	6169	1	1793	MAETAVINHKRKRNNSPRIVQSNDLTAA YSLRSRDQKRMLYLFVQIRKSDGTLOQH DCICEIHVAKYAEIJGLTSAEASKDIRQH LKSFLAGKEVVVFYRPEEDAGDEKGYESFP WFKRCATAVGRQRTHADKERGAREKG GEKKAKAKKTGSTRKRGGRERKKKG QEKGKDQGRNAQTKGEKRPQHFKANTPPK TLQQRKEKKTGDSHIRRKKKLKFSEKSVL SQEWEHDFVIETMATGARPOLLPSAVEA SCNFEDQLCNFYQDKEGPGWTRVKVKVP NMYRAGDHTTGLGYVYLLANTKFTSQPG YIGRLYGPSPGNLQYCLR,RFHYAIYGLFK MSDTLAVYIIFENHHVQEKIUVSLESPR GVWMQAEITFKKCPMTKVVMSLCKSF WDCGLVALDDITIQLGSCCSSEKLPPP ECTFEQDECFTF/AGEKKPEOLAAEEGE TPTSYTGPQGDHTTGVGYYMMIASHM VYGOKARLLSRPLRGVSGKHCLTFYH MYGGGTGLLSVYLKEEDESESSLWRR RGEQSISWLALIEYSCKERQHQIIFEAIRG VSIRSDIAIDDVKFQARPCGEMEDETPQQ SSGYSEDLNIEIYE
5328	13379 A	617	540	820	KIGPOPGQHSKTLSL*TIKKKLARCGGTC LWSQQLGRLLWEDCLSAGS*GCGEL*SY HCTPAWVTERDLVSKTQKNRAITGKLL DVLSSLLR
5329	13380 A	6170	2	392	RNNKKQGYPAHFSTFFYPK*KSGGYQA VKRWTKGVLNLFEQEILVPIHRKVHWSL VOYLODESKTKEKNSDNLLEWTHHSM KPIHEIPQNLNGSDCGMFTCKYADYISRD KPIITQVSEDPHLHPFTCY
5330	13381 A	6171	2	386	MNLVERNNKKQGYPALHVFSFTFFYPL KSGGYQAQVKRWTKGVLNLFEQEIEILVPIH RKVHWSLVVIDLRKKCLKYLDLSMGOKG HRCIMVVLGYLQDESKTKEKNSDNLLE WTHHSMKPHIIPQNLGE
5331	13382 A	6172	3	162	
5332	13383 A	6173	3	407	TRRADPLRTWRWHNLLVSFAHSIVSGIW ALLCVWQTPDMLVIEETAWSLSGYLLV CFSAGYFIHDITDVIVASQOSASILLEYLV HHVHAMGAFFSGIFWSSFVGGVLTL VEVSNIPLTIRMMMKISNAQDHLL
5333	13384 A	6174	13	367	KYLFFFLLDHTKVGKRRMSIRLHQNLGR GRTKSLCKLKLVAGANCRDQDPPSPRNQ QPRSATFRPSPNRCH*IPQ*PYSAQCPHFG SGGQFRSLRGLIVEYRSSERHISYRRAG LCEY

5334	13385	A	6175	3	413	AAIEELCGRQAARAEEAVRGLRGPRGLR/WPLPWHPAPPAGAPLARPGARARRSEKPPSEKPRLRSSSPRAQEEGPGEPPPPPEALLPPPPTTATPTSSASNLQLGEQRERWETFQKRQLTSKGRQAPARH
5335	13386	A	6176	2	445	RPLPWHPAPPAGAPLARPGARARR/CEKPPSEKPRLRSSSPRAQEEGPGEPPPPPEALLPPPPTTATPTSSASNLQLGEQRERWETFQKRQLTSKGRQAPARH/CDCKYRN
5336	13387	A	6177	2	265	FLMESRSRVTLECSSTTAHCNCLPVSSDSAVASASQVAGTTGMRHHQALFVFLVETGHHIVGQDGLUHL/NIVIHLPRPKVLGLQJ
5337	13388	A	6178	1	394	WLWGFGGFFIEISRPVAQAGVQWRNLGSLOPSPSKFKRFSPFLNPSSLDYRHTTPSLANFLYLVOMGFHVQGDGLELLTSUDPPLASQSAEITGVSHRTQPRSAILLSQSSLLPLRLTFISSLPVTE
5338	13389	A	6179	3	1306	HEISLGAIACAVLIVMGLFATRCNRKKDTRSYNCRAAESTYQHJHKPRSPQRHKGDTLVTPTNGTLPRSHIHSRSPSSPTLERGQMGSRQSHNSHQSLSNLTVTSNSHVPENFSLELTHATPAVEQVSQOLSMHQOYQPRPSFRGNKYSRSYRYALQDMDKFSLKDSGRGDSEAGDSDYDLGRDSDPIDRLLGEFFSDLFLTDGRIPAAMLCTEECRVLGHSDQCWMPLPSPSSDYSRNSMFPIGEEEFPTOPQQOHPHQSELDAQPADSGEKKSFSFTFGKDPSKMRTLGDTSRSSLSEMSSVFORLLPSLDTYSECSEVDRNSLERRKGGLPALKTVGYPQGVAAWAATHFQNPTTNCGPPGLTHSSVQPSQSKWLPAIMEEIPNEYEEDDFDNVLNHLDNGKHELMDASELVAEINKLLQDVROS
5339	13390	A	618	45	364	HHHLHFQLRKHSQMRMTNTGLFEILTMLLTTMNLVDIFHEKADVVDMAYNAFDDEYLNCTDRMDIKYVQVQLKEEQASHHH*DTECENA*ARWAARMTHIFLPMDDYN
5340	13391	A	6180	21	375	GVTVGIGRSRLELWAPPEKYTPPGRPSHPLWLWEGGGSSIRREDTTSSPHQVIPVQSWFDDMMGNTELLNLIPIFEELNGAKDVTYTSL/GAAAAGPLDCPAFKRRPPHYGTTFPHCAFTI
5341	13392	A	6181	3	471	HASAHASAHQVYVVKRPYVDEFLRGMGELFCVLFATSLAKYADPVTIDLLDRRGVRARLFRESFCVFHQGCYVKDSLRLGIDLRTLILDNSPASYIHPENAEPVQSWFDDMAYTELLNLIPIFEELSGA*DVTYTSL/GAAAGPLACPASKRPPSQ
5342	13393	A	6182	1	1953	
5343	13394	A	6183	3	240	
5344	13395	A	6184	1	462	
5345	13396	B	6185	1	546	MVKPLSLQMVPLHSSLGNRGSLENKNTGVWESAASCCMAGCGGGPAGDGICSEPLGHDQDGRAQSLLLWAKLTRKDRFSSQPRSIPSDFELKAKALAKQRETIWEKVFPSPQAGVLSPPGSATLSSLTEQGAVGQKPPSVPCLMGLFVEHLLTWQLTTSVQASKSKREDSPETVIAKQKAQSF*

5346	13397A	6186	1	1846	MWSVPCLEKVDVLAWTVCCLAVKIKM NKLRSQSFRRKKDVKVPEASRPFHQWQTD EEGVRTGKCSFPVKNWQRFLIQSLLAMR SLSASCCHQPAVYSSHGTQAHAKGCL QAHAHRACCPSCSTSPAAAIFAAATPDG PLLPSPRLVNLIEKSQALVRETTTSQASA PNSGRAGQPVTVCLS/GANA/AWRPALEA PVDITGLWPETQAVSQCD*EVHSACLER KQKREKECGVTATFDASRTTFREGSFR VTTATEQAEREEIMKQMDOAKKAQTSV NTPAPRGRRTSTTSTGRLWLMGRPASLA RGMSWMMAAAGLSSAITSWTRPSRRTS VCGVGVTARPATPSQAPLTLMTSAEL'R MFVGNNTSMGTGPSSRRPGPCQQPAPSCI TSGVLRGT/SAPER/PPCPGPTSEPLVIVVA PASAGATAHGVTAAARSVAEVTSPAWCS APSTMRTPTTCASASHGQLTGVPAJFTL ARRPSAGLLGWWRWTWLCKMGPGCGS/SP LGPCTRGLQSPPRMAGRQGHGHPAQPP VEEAPSPAPCTASRLLTGPAASRRPWRLLES VPGCLGSPLPFRPVTCSAVQPGARSPGES VLSVVALASGGALLAGVKGVLCISIPQR APWKTIHL
5347	13398A	6187	1	1542	
5348	13399C	6188	539	1039	MPYPAPNPVPVVGITPSQMVANXFGTAG HQPOAAHIPHOSPLVRQQTFPHYASSAT TSPFFKPPAQHLNGSAAFNGVDDGRILAS ADRHTEVPTGTCVPDPFEAQWAALENK SKQRTNPSPTNAFLHVYTIRRLLKLNFKQ SLWLCILSIPDREQQVAVKGAKQTLCPD*
5349	13400A	6189	303	2235	VKIKMNKLRSQSFRRKKDVVPEASRPH QWQTDDEEGVRIGKCSFPVKYLGHVEVD ERSGRMHICEDAVKRLKATGKKAVAL WVSADGLRVVDEKTKDLIVDQTIKEVKVF CAPDRNFDRAFSYICRDGITRICHCF MAVKDTGEERLSHAVGCAFAAACLERKQK REKECGVTATFDASRTTFREGSFRVTT ATEQAEREEIMKQMDOAKKAETDKIVV GSSVAPGNTIAPSPPSTPSDATTLEM NNPHAIPIRRHAPIEQALARQGSFRGFPALS QKMSPFKRQLSLRNELPSTMQRKTDPP KNAVPEVEGEAESISSLCSQITNAFSTPED PFSSAPMTKPVTVVAPOSPTFOANGTDS AFHIVLAKPAHTALAPVAMPVRETNPWA HAPDAANKEIAATCSGETEWGOGSSGAASP GLFQAGHRRTPSEADR WLEEVSKSVA QQPQASAALPQVILQPPPPTAISQAPASF QGNAFLTSQPVPPGVVPALQPAFVPAQS YFVANGMPPYAPNPVNPVGITPSQMVAN VFGTAGHPQAAHIPHOSPLVRQQTFPHY EASSATTSPFFKPPAQHLNGSAAFNGVD DGRILASADRHTEVPTGTCVPDPFEAQW AALENKSQKRINPSPTNPFSSDLQKTFEI EL
5350	13401A	619	112	322	NSLIAGYILVYVKTPTQKEKSFLKVLIST YIKVAKYKV*ILKSITLFLFTKEYSKINIK MPFTTPTTPN

5351	13402	A	6190	795	2728	GLSNFPRGRVVPQPLLOFKILIIYHLREY WWASNPOTPHLGQAQVKIKMKNKLRSQFR RKKDGVYVPEASRPHQWQTDEECARTGK CSFPANDLGHAEFFESRGMHIICEDAVKR LKATGKKAVKAVLWVSADGLRVVDEK TKDLIVDQTEKVSFCAPDRNFDRAFSY ICRDGTASHGFRCRFMAVK/DTQGERV EHMQ*ICAFAALFERRARQKREKECGVT ATFDASRTTTREGSPRVTTATEQAERE IMKQMQDAKKAETDKIVVGSSVAPGNT APSPPSPTSPSTDATSLLEMNNPHAIJRR HAPIEQLARQGSFRGPALSQKMSPFKR QLSLRINELPSTMQRKTIDPMPNAVEVE GEAESISSLCSQJTNAFSTPEIDPFSSA KPVTVVAPQSPITFQGETWGQSSGAASP LPQAGHRRTPSEADRWLVEVSKSVRAQ QFQASAAPLQPVLQOPPPTAISQFASPFQ GNALFTSQVPPVGVVPAALQPAFVPAQS PVANGMPYPAVNPPVVGITPSQMVANV FGTAGHPQAAAHPHQSPSLVRQQTYPHY ASSATTSPFFKKPAAQHLNGSAAFNGVDD GRLASADRHTEVPTGTCVPDPFEAQWA ALENKSQRTNPSPTNPFSSDLQKTFIE L
5352	13403	A	6191	1	1825	MNKLRSQFRRKDVYVPEASRPHQWQT DEESVRTGCKCSFPVKYLGHVEVDESRG MHICEDAVKRLLKAQRKFKKGFFGKTKGK KAVKAVLWVSADGLRVVDEKTDKLIVD QTEKVSFCAPDRNFDRAFSYICRDGTTR RWICHCFMAVKDTGERLSHAVGCAFAA CLERKQKREKECGVTATFDASRTTTFRE RSFRVTTATEQAEREIMKQMQDAKKA ETDKIVVGSSVAPGNTAPSPSSPTSPSD ATTSLLEMNNPHAIJRRHAPIEQLARQGSF RGFFPALSQKMSPFKRQLSLRINELP/SPT MQRKTDPPIKNAVEVEGEAESISSLCSQ ITNALSPPEDPFSAPMTKPVTVLAPQS PTFOGNEWGHSSGVAASPGPLFQAGHRR PSEADRWLVEEVSKSVRAQQPQAPAAPL QPVLOPPPTAISQFASPIQGNAFLTSQPV PVGVVPAHMQPAFVPAQSYPVANGMP YPAFPNVPPVGITPSQMVANVFGTAGHPQ AAHPHQSPSLVRQQTYPHYEASSATSPF FKPPQAHLNGSAAFNGVDDGRLASADR HTEVPTGTCVPVVPFEAQWAALENKSQ RTNPSPTNPFSSDLQKTFIE
5353	13404	A	6192	164	282	
5354	13405	A	6193	193	274	
5355	13406	A	6194	3	247	FFFFNMRGFIAALFKITKIKWQPRCPVS WDKLWVYVTEHNNSALKRNLSCPQKM RKLKSILLSKRRSEKATYYITATM
5356	13407	A	6196	57	361	GLTMDTQKDVPQPKQQPMIYICGECH/ TPENEIKSRDPIURCREGYVRIYMKKRTK RLGRFLMARWNAGEFQREWPSPYTGLF GSLPHFWIVCVYSFSIFALQ
5357	13408	A	6197	2432	3682	NSLILLLLLFFFRQRSLTLECGVISAHNL HLPSNSNS/P/ASAS*VAGITGMHRHAWP CIELVETGFRHVQAGLELLTSGDPPAPT SQSM*ATTSGLJLLLSKILFLFHSTKVPK* SCPS*KILKEENCSVINEWPNSESSYTKSE KNNLVPNAC*EIVTM*VATNCDFTSLL*R SENPYKLFINNETTSQKIHLKIKISRPATS GQWUFLSLVWWRAKG*GILMHNGILY *TIC*IKLHLRLP*GMDYDNPQD/MKSGWD KRMSTHL*F*GKEIVFDQFNQNQONKLSTL YLSVQE*IEEFFFRLDKYNKPGSTIKSL VSF/HSL TLFFFFFFFFFFFARSHSASQAGVQW GNIGSLQPAPPGLKRSRSYLSLLSWDVR VPPHIPANFCIFCR/GWGFVGPSCCPGSSG

					TPVLKWRALSLPNC
5358	13409	A	6198	1	632 KYRQDQLTVPPGYCTGEQGAGGRPGTEPWLRPPALLPS\DFLLCASSSGAVLPVRTQDFPLYPFRACPOGQAASSATISRPCPEVKEAGWGSPGHLARHALSHVPPPARVVLVLERWHECGDGRVLLGSRALRERHLGLMGYQLL\PGFWWPWGPWRILTPSLRVTCRPLLSPLQPFEELESQRG/LCPQLKSYLRLQALGILRGWPEGG
5359	13410	A	6199	2	313 EVRVYDLTQYEHC\PDVLVLTGTDGLWDVTTDCEVAATVDRVLSAYEPNDHSRYTALAAQALVLGARGT\PRDRGWLRLPNNKLGSQDDISVFVNPPGRARQLLLRG
5360	13411	A	62	994	1108
5361	13412	B	620	180	372 MAKDAGLIEANGELKVFIDQNLSPKGKVSLVAVHPSTVNPLGKQLLPKT\GQSNNIAQQVVIX*
5362	13413	A	6200	401	531
5363	13414	A	6201	1	864
5364	13415	A	6202	9	811 YITITLRLQGTGRGTPGRFIYTALNEPTIDYGFQRLQKVIPRHPGDPERLPKEVILKRAADLVEALYGMPHNNQEIIILKRAADIAEALYSVPRNHNQNLPALANTS\HAGMMGVNSFGQLAVNVSEASQATDQGFTRNSSVS\PHGYYVPS\TTPOQTNYNSVTTSMNGYGS\AMSNLGGSP\FLNGSAANSPY\AIVPSSPTMASSTS\LSNCSSSSGIFSFSPANMVSAVKQKSAFAPVVRPQTSPPTCTSTNGNSLQASIGMVPPM
5365	13416	A	6203	299	826 LEGHCHNLSSLQISASLGFKRFSCLTSPSSWADSRTTPC PANFC/EFLVENG/FHHVGQAGLKL\TSSHPPS\MSAQAGITGMHSQAWPTPVNLINFNSLKMCRMCPMATHLGQCPSREYKIHSCS\CAELEGQAHHEPDVGVTISRKCPVNALWWKELVPGAGQHGHPHLEPGLG
5366	13417	A	6204	1161	2627 RSDATNWGLSHLCFWFWFLJRLSLFLSPSLPRLCNVNTISAHCNLFCLLGSNSPVSASLVAGITGTRIHAQJULLYFF\FLVKTRFHHDQADLELTSGDPPTSASQSAQITG VSHCAR/LSHLCFLPFLCLFLF/CYFIVVMMLCY\WSLFLVAQVGVQWHDLSLQLPPLP\GKF\*FSCSLSSWEYRRSPPHANFFFFFLRR/RSRFA\QVGVOWCNLDSLQPPPFSKHF\SASACRVAQGITVACHHAWLJIF\FLYFF\*RQGFTILARLVLNS\*PRDPPPSASQS AETIGVSHHA\WP\I\T\YLRQSL\DSVAQA GVQWYNLGLSQ\PPPPGF\KQFCSCLSF\SSWDYRRVPPCPANFLCF\*RQDFTMLARL VSIS\*PHDLPASASQSAEITGVSHRA\WPIFCIFF/CFFEMESRSVAQAGVQWRLDSLQAPPGFTPSCLSLPSSWDYRCPPRPA\NFCIFSRDG\VS\WSPWSLSPD\LVICLPRPKV LGLQA

5367	13418	A	6205	24	617DPVSTKNTQJSHMWVWCTPVVPATOAE AREFLENFLSPSTGFECSSLLFFFFFFFLSQ GSHSVTQAGVQWCDHGSQPQPPGRKP SSPLCLLSSWDNH/RPANFFYKTIVKSPE E/FLQAVVGCACARVYSAFTEKFQH SSSVGLJRHRSFEISAFSHFP*VFVWPWSPP LQEERETLSFPSSSIPHCPSTSPPNDE
5368	13419	A	6206	239	1789ATAPQOIFFFFFRLRWSLTSLSPRLCESDAI MAHCNLKLLGSRNPPTSAS*VAKDYST HQQAWLISYPUFFIETGFRIVAKAGLKL TSSDPPAPASQSAGIKRVRHHVWPSFSY VNKHHLFSRGLRALSYKLL*QMQLFFNL SILSHDFVAVPSCHDWHLRSFETCH**CSV THLEGLQVHF*L'DVIVPLI0QGVSLNSSSS SPLSEQ*DNLJLSREWGHSHSNLSSVSKV1 M*H1.TATSCDTELASAV*VLS*PL*LR LSD*SF*TFWLLFRDRIQJIFCFLFLKRWS LDSVTQAGVQW/RNHGSLOPQTPLGLGS DTESEFFF*ARVSLCIPGLEVQWCNHNGL QASNS*AQVILPP*LPN*LRLQACTIMPG* FCF*LVCMGLAMPMPSLVSNS*AQ/CNH PVLASQSSGITGMRHCARLGRES*FDPLH *TVCPICNFVFLRLRSFALVAQAGVQWR DLSSLQFLPLGFR*FSCLSSLSSWDYGHIP SLRSANF/CVFLVEMGVSPCWGTGWS*TP DLR
5369	13420	A	6207	2	208LEAHARPSSSKMLIKCSQQGGTPQEPNPRI KRASSLNLFNLKSVEDPTQHGQIQVFLSA ALASAPWTSPH
5370	13421	A	6208	1	419SAFSVAVTKKLPTIGAACPIKFITKILMNE GOHYNASSGKFRICVGVLGIYVFHILHTL GNKNDLAIGLGAORPSTASGCLMPMTGN HDVGSGSTILALKQGDEVWLQIFYSEQN GLFYDPYWTDSLFTGFLIYADQDDPNEV
5371	13422	A	6209	756	966
5372	13423	A	621	39	460GVYLKLSINTVGDKEVKVRRIHPITTQL QCGIQGHNLLWVVTAASEIRSFHLSPSSRF RRFKSJCIFCHIVTRSGKSMLQMFITPEKKN DFSGCPVRPGRGRGEGAVRSAGRGRG*A RAGAGPGGGPRGRGPALGRVAPGLVPN
5373	13424	A	6210	24	365PTEY/ENL/FPCIKEAF/VVEEWKETLAV L/WPAKQYPFVTPIEERILMEEGKAFFPSSR STAKOKLDGNPVSTPTVJGLSPTPNKEE KOPDPWPLEPTGHLDGARDTAGPSWLH HRK
5374	13425	A	6211	32	188KJFFFFFFLPPQFKILFKRPTGLRVPGKGR RALGGSPKGAKKAWPTRRLPSFNGYLE GSSNGASTESPGNFPVGKTLQPGVVELG RGRWTAAQGQPSRPVALGA*KL
5375	13426	A	6212	122	339EKGFWFCAQGGKNLPGGNSLEPSASGL KEIFGLNLLNNWE*RGPKPTGPNFWIWK KGGV*PLWPGWG*NPG
5376	13427	C	6213	56	118MKALPSSQSCGPTSVNSPFH*
5377	13428	C	6214	345	410
5378	13429	C	6215	7	438
5379	13430	A	6216	2	80
5380	13431	A	6217	3743	4059GCAVFFFFFFFLRWSSLRPLE/CSGTWSA HCNLHLLGSSSSRAAASQVAGT1GMHH HARLIFVFLVEMGFHHVHSNS*POAIHPPQ RPKVLGIGRDNRHGLMEWSF
5381	13432	A	6218	3	402DTMVHLTPVEKGAVTALWKGVNNDDEV GGEALGRLLVGYPWTQRFESFGDLSTP DAVMGNPKVKAHGKKVLGAFSDGLAH LDNLKGTFATLSELHWWDKLHVDP*NFRLL LGNGLD*MLAHKPGKKISPQNGKLG

5382	13433C	6219	295	618	MARKCSVAFSGGPCTWDNLKGTEAHT EVSLHCDKAAPWIEPELGSWGWNVLAWS CWLGPFTFGKRISTPPVAGLPNQENWLA WCWLNALGPTSNHLSLAFLAGPSN*
5383	13434A	622	138	320	GFFQGAQKKRVRHPKGPGKSRF*KFRA GPGGSIWNPNHLGGPGGGNCWPPGFQTIP PNNG
5384	13435A	6220	2	337	IKKAL*HF*LREKKKSPIRTSQSSKAP*NL PRSSSSSESSNNYQQL*AHKLQKVKEMG KLLETPNLPLLSQKVAPLNQPIITSKIET LIKKPYHPEKSYGHDEVTAKFSRA
5385	13436A	6221	1	2349	
5386	13437A	6222	2	1802	
5387	13438A	6223	5175	5804	IANNKDALARKTWNPKFTLRSHDGIRAL AFHPIPEVLTASADEDHTLMVNWLQKTAP AKK*EYSTLTLFEYFK*HLSILLYSI
5388	13439A	6224	3	115	HETDYIHKQPWQGEISGIVSTESQ*WGLG GGEVKVKWE
5389	13440A	6225	2	28	TIADRELRYSEDEGGRRGR*REEEGEA ARRKRVAKQVGKRANEERKTEERWDG REGRRERRSEEMEVSGKERGHATSGREE KENTG*GPRAI
5390	13441A	6226	1	236	RTRGRTRGSTHIAFVRQLMQRNLDTGP MAGHDNOLQQKENSTPDSSLFPETSNKEH ISPEENMSLKTLRNSNP*DLYDEI
5391	13442A	6227	3	178	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPPLVKGWIRCSAEALGNRS L1
5392	13443B	6228	1	1050	MVSISWPRDL PASASQASQAGITGLIGALVL SVGIYAEVEROKYKTLTLESAFLAPAHILL GVVMFMVFIGVLASLRDNLYLLQAFM YLGICLIMELIJGGVVVALTRFNQOLLRRQ QLVSHSTLGCADLSIDDPGSGPGVKPMFVG PVPAQFPELLASLRLSRRGYYGLVLSWLEP RYEKHMISGMYLGIVRNILIDFTKKGFLF RQUSIETLKTTRGIFETKFLSQIESDRALL QVRAILQLGLNSTCDDSLVKTVCGVV SRRAAQI.CGAGMAAVVDKIRENRGLDR LNVTVGDGTLYKLHPPHSFRIMHQJTVKE LSPKCNVSFLLEDGSGKGAALITAVGV RLRTEASS*
5393	13444A	6229	3	250	SLCOPGWSAVADSRLTASSISQFTPSC SFPSSWDYRRRPPRPAIPLYF**RRGFTVL GWRSRSPDVLVIRSLRSPPKVGLQGV
5394	13445A	623	24	452	APS PDA MG/HSL_WKGVNVEDAGGETLG RLLVVYWPWTQRFDFDSGNLSSASAIMGN PKVKAHGKEVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVL VTV LAIIHFGKEFTPEVQASWQKMVTGVASA LSSRH
5395	13446A	6230	135	466	GIDTILTQNQ*SLKTR*FTLII/IFFFL RLLVVYWPWTQRFDFDSGNLSSASAIMGN PKVKAHGKEVLTSLGDAIKHLDLKGTF AQLSELHCDKLHVDPENFKLLGNVL VTV LAIIHFGKEFTPEVQASWQKMVTGVASA LSSRH
5396	13447A	6231	593	1030	KCNNSSLNMNEFKNPFCMKPNSSLIP GLSAIKVSNKTNT*NMITI*LWIIFFFELI WSL/DSVAQAGAQWAQWCHLGSQAPPFET PFSCSLSLPRSSWDYRHPRPA/NFVVELVE RGFTVLARMVSI*PRDLPALASQSL.WII L
5397	13448C	6232	17	145	MHRDLFNFQFISSVYTSLYLLEKCIKCF SIKT.GLIHTMW*
5398	13449A	6233	82	377	IPGLKRSLSLHSSLNSQSCATLPSYFFFFFF FFYFYLERRLDAMLPLRFLSSPGLK*SLH LGFPEHWDVYDHEPPSWLFFFIFNNRRV LLNVKFYHMV

5399	13450	A	6234	281	1102	RMMNIPFWGGWPLGHOSQOATLTGPPGVCS SPPNPQRNKGRPSLTWKSWACGMFSICF FCSVTKTFKLGPHQRLKSSKTTIAT*DIL LKRKVKLCECRPSLPFFTAWKPLRICW GVAEEGLSSLKEGMLVDSLQPRKPRCP LPHFRSLSTPTFFDPESIPTDPTVLHPLCP KEORPDPELPSLGEAPWR*SLPFLJSTPC SLKECETMKPHMCRSPCRGVLTPSATCA QWPDQGWGPVIPGAPPFSDETVCNSQLL LPEAPACSGNQCLSWPKK
5400	13451	A	6235	2	260	LSTLQAGVQWCDHHSLLQP*RLLSNWDH MHAPSCLAIYFF*ETTSYYIAQSYLKHLD SSNPTTSASQGTAITGISHWARLDTSQFG H
5401	13452	A	6236	3	224	KSCPGTTPGNGAGASLEDLWWRSAGRW GGTSKPCPLSAGCPLAFGPPARLTGASM PPLSALNG*ERRRKRPQGL
5402	13453	A	6237	3	307	EAWRMSWGGP*ER*PLPSP*GVSSC/AP PLPSVSAGLGEPRPPDVEMSSDS WDGGSR/PFTISTPRPPRLGCLLHAVFL ARW/PLPSV*PRTPHCEH
5403	13454	A	6238	265	315	
5404	13455	A	6239	359	785	GNPSWSFPKAMDPSLRELQQLLEGETE CGDPCPEAW/PGMSWGPP*ER*PLPSP*G VCSSC/APPLPSVSAGLGEPRPPDVEMDS SSSDSDWDGGSRSPFLPHDHLGLAVF SMLCCFWPVPGIAAFCLAQKVSLCVGLG GDWA
5405	13456	A	624	60	548	APSADAMGHFITEEDKATITSLWGKVNV DAGGETLGRLVVYWPWTQRFFDSFGNL SASAIMGNPKVKAHGKVLTSGLGRCH STWDDLKGTFAQSLSEL\HCQGACMWDP ENFKLLGNVLTVTLAIPFGKHFHPW LAGFPGQKD*LGVASALVPSRYH
5406	13457	A	6240	3	277	
5407	13458	A	6241	8	370	RLGEEKAAATGVVVHGLDCFFSPRAPTRP GSRLLSQQDPGCGEI*NPWSFFPKAMDSPL RELQQLLEGETCEDPCPEAWAGIELGLSP FKRDSLCRVPEGFCSSCSCPPLPSVSAGLG GTKAP
5408	13459	A	6242	1	351	KTGHSHVAEAGVQWHHPSL*PQPGPK QSPHLRFPKCWDRRTTPCPGNFFDLR* RWGSHHVAQAGLELLNSRDPASTSQA RITAMSHARPVSTLSTSTSCPVLSTH RSLI
5409	13460	A	6243	2	1036	SHTLSYLVKELEVMDILAKAMPDDIHAR KILLSRINNNYTPEEEEIGSFLFHAINKPNA IWLLNEAGLYWRAVGNSTFAIAICLORA LNLAPlQYQDVPLVNLANLIIHYGLHD ATKLLQLALAINSSSEPLDLF*AGEMAYL ALKNISGALEAFRQLKLTKCPECEENL KLRICMQYQFLYNNTSSVCSGNCREKT DNSHDKQKYFDNSQSLDAEEEPSEERT DEDPAFSVENSGRDSDALRLESTVVDES HGSDEMENSEDTKMSSEEILALVDEFQOA WPLEFGGCALEMKGRRSRLTRNTGAEE RSPGWKWPETLAMETAEVKMMKQONG LHSRSNV
5410	13461	A	6244	31	372	KVRVLGWVVAHTYNPSTLGGQGRRI*TQ EALTSLDNIVRTHLYKKFYKLAQWVAC GOTCLEGGKEGYVNMSNVNHTGGQGDP GLLGSLSLGRIFGCTWDSYRHAAJAMP KLK
5411	13462	A	6245	816	929	DRVLLYCPGWNNAV*TWLTVASASSAQ AILLPQPPPCLA
5412	13463	A	6246	3	119	RRGLAVLPRLVINSWPQVJFLPHAPKVL GL*AQL

5413	13464 A	6247	2	285	RSVLCECRNSVVSQIWGNRLYLVEYPTI MKVEKWAGCGCSL*SQHFGRLRGVDR LRSGVQQGPQHQHDETPSSLKMKWAGV WWLPVPVPAACL
5414	13465 A	6248	3	437	RPRRLFFLRLWSFALVAQAGQVWHILGS PQPQPPGF*FLCLSLPSS*DVRNVPHPIPA NFVELVETGFCHVQOAGF*LPTSGDLSA WASQSGAGITGVSHLARQAASDFNSRDRR GSQIPSNQSDANQNMEMLNKLKDPPIVT CNT
5415	13466 A	6249	3	459	VLTANLIPAKQCFDCNPLSTFSVITEAF VFCLLVTCTCMNLFIIIFVHFSSRRVV FFPLPILGAPCKMGMILFMQITFLPSLNIFQF GSKCIQQYRILNFYAM*SVTLFLWPIVYK YSFTISRPTLYNRSTLLPRKDWRWKGAR QQTPO
5416	13467 A	625	32	452	
5417	13468 A	6250	2	342	FKRQSLTLTPREYSGTHAIYNLKLCSS NPSSASQEAGTTGYHD*TIF*FVVTG SPYVAHAGLELPVSSNPPTSASQSGRID MSHHIRKTALLSGKEWTRPPTHLL
5418	13469 A	6251	2	207	ARGDPESTVAAEFTPTIPHCSMAFLIGLP KVKKLRLSPQSFKVWS*APGVRPGIEGL LLRMGTGRA
5419	13470 A	6252	1	90	RWLIPISPAL*EAEEAGRLLERTSRPAWS T
5420	13471 A	6253	3	290	RQGFPCLNCNHGTVTADLQPLPPFGK*ISH LSLSSWNYRCTPPHPADF*FVERKSHY VA*ACELLCSSDLPALISQRVGITGMST TPGICLL
5421	13472 A	6254	2	378	AGFTAHVILLNHPGO*SAGYAPVLDCHT AHAICKHAELNEQIDRSACKLEHGPNF LNSGDAIIDDMDTVKPMCVESFHSYSPF GRFAFDRMRHTVAASVIMALDKKAAV AGKGSNSGQKAHKAK
5422	13473 A	6255	3	735	NASGTTLLEALDCILPPTRPTDKARLPL QDVYKIGGIGTVPVGRVETGVLKPGMV VTFAPDNVTTEV*SVL'SHEALS'EALPG DN/VGAFNVKNVSVKDVRGNGVNAGDSK NDPPQEAAGFTAHHILNHPGOQAGYA PVLDCHTAHACKYAELKEIDURRSGKK LELDGPKFLKSQGDAIAVMDVPGPKPCMVE SFSDYPLGLRFAVRDMRQTVAVGVIKAV DKKAAGAGKVTKSQAQAHAKAK
5423	13474 A	6256	328	621	PVFLCFVLFETERSRSAQAGQVQWRDLG SQAQLPPGSTTFSCSLSPGGWDYRCPPC SANFCCIFSRDRVSPC*PGWSQFPDLMR RARPLFLKNRKL
5424	13475 A	6257	1	1245	
5425	13476 A	6258	1	248	FPDQPIHIVYVPSHLIHHMLFELFKV*YFTI IEILPFKKGLTSYFISFIURHKTEASISFPK NASSPPKRKKLYSQCLTKYM
5426	13477 A	6259	1	1456	
5427	13478 A	626	3	570	HSLSGTSEVINKLLVQTAMGHTEEDKA TITSLGKVNVEDAGGETLGRLLVYYP WTQRFDSAEGNLLSSAAMGNPKVKAH GKVKVTLGDAIKHLLDILKGTFAQLSEL HCDKLHVDPENFKLLG(NMLLVTVLGN PIFGKEFPHWRLQASWQKQKMAEDGD CSWVPCSSRLPLSSLALAHDRGVFOG
5428	13479 C	6260	63	302	MIYKEKRESVSKEDALARATLVITINNIGS VARMCNAVNEKINRVRVFVGFLRVNTLS MKLLGICTGLLVRKSTKSIVSXT*

5429	13480	A	6261	1	2063	MGYGVTAFFIWAESRVLSSCPASKKKNEL MI.TAMDICALSI.RCATEDDPG/VAMGRP ACCYRYCKNPKPSRCRGVPDAKIRI FDLGRKKAKVDEPFI.CHCHMVSDEYEQL SSEALEAARICANEMVKSCGKDGFHIR VRJHSFHVIRINKMLSCAFRAHASKCFCQ NGNMIMYKEKRESVSKEDALARATLVTIT NNIGSVARMCAVNEKINRVVFVGNFLR VNTLSMKLLAYALDYSWSKGQLKALFLE HEVCVETVNDQGHFSVELVTLNQNLNL VVDKGTPKSLSGLQKQPAGGINSPLYLG AFFWFGMIDGGTLVCLSYFEPIDIAEAE QEVESELKSIRKYLTSNVAYGSTGIRDVH LEIKDLTLFGRRGNLHFIRPFTQDLPFTIQ MGRDKNPSTLQTVCATGGAYKFEDF FRITGNLHLHKLDELDCLVKGLLYIDSVS FNQGAECYYFANASePERCQMPFNLD DPYPLLNVNIGSGVSILAVHSKDNYKRV TGTSLLTGCESEFALEMASKGDSTQAD KLVRDIIYGGDYERFGLPGWAVASSFGN MIYKEKRESVSKEDALARATLVTITNNIGS VARMCNAVNEKINRVVFVGNFLRVTNL MKLLAYALDYSWSKGQLKALFLEHEFGY NIVIS*SS*DSHTGLSQLHPEREVRLSL* GFAHVPLALVCGHLPW
5430	13481	A	6262	2	527	LAVHSKDNYKRVTGTSLOGGTFLGLCS LITOCESFEEALEMASKGDSTQADKLVR DIYGGDYERFGLPGWAVASSFGNMIYKE KRESVSKEDALARATLVTITNNIGSVARM CAVNE*INRVVFVGNFRLRVNTLS MKLLAYALDYSWSKGQLKALFLEHEFGY NIVIS*SS*DSHTGLSQLHPEREVRLSL* GFAHVPLALVCGHLPW
5431	13482	A	6263	2	186	RNGLRYRQPI*CLIAENFPGLARDIDIWK LETQGVPNRFNLKRSSQRQMIVRLS*VKI NREF
5432	13483	A	6264	3	180	EMGGKIDSFLNEIIIAENFPGLARDIDIWK LETQGVPNRFNLKRSSQRQMIVRLS*VKI
5433	13484	A	6265	3	474	GTDVGKVKAAHALSHKKLCLKM/TQVTT QWLEILQRLCLHDQLSVQHGRVLVIAINY LAADAEI.AKKLVESELLEI.TVVQKQEP DEKKAEVVHATARECLIKCMDYGFIPKPV *TATL RDAGSGPVLCRV,L.GWLGPQESG HLOHAUTMKMSQYKGT
5434	13485	A	6266	2	651	HSERGRQRKRVRQKTD/TVREKGRRER QTGREKE**DRQRQT**DRQRGRERDJKDR DRDREKERDRQTEKEJQRERQRRTERN RQREGIPSPVAIQCLFFFHFLPFSSFLSCIS VCMDDVCMYVCMYVCMYVCMYVCMYV YLETGSHSVAQACSAVVRSLHGCSLRP GSSHSSPPASRVAGVTGACPTAPDYSISF QVRDGGFTTLARAGLELL.TSG
5435	13486	A	6267	56	901	EELAVSILLPSALAPATVGPVALVWDGI GGWLCQCQAREQPAE*QPQVLVPGPGR ERQGGCSFRGQSALLSSADFTEGPGYK PHSLSKENI.VKIQLDKPQEFGVFTLGV SMRIKGRDRLSSIRSPrVLSPADRNSMC FPTVTKDSVQRTSASAPSSLMIQAEEKC HSS*PTASGSPQHQTHPGATGPAPLQ VETQ*TRLSSGLAGPRTLSNESECSPKTL EPKFWVNKAFKCLCYLVVSPQJPRH GSDMGSGHTFEIPLLARKGCPROAVW
5436	13487	A	6268	132	378	YHSQRCCRGGVIIILSKSKARSRSRMKQ YKNETVTKDKGKYHKNVSMISI.K*LEKP VRPL.EI.YYYYYYYYYYYYYYYYYWWQVLS
5437	13488	A	6269	3	397	QRLDTRHISLKSXTGVHLPEPNLNSARRI RNISGHRKSETEKESGL*PALRQILNASW RKVIEQVQILVS*TRELRRG*L.SVGID DVGVETVVLVVVFCLCSITIVALL.CFSYY SCLPCWCLLSLCSFF

5438	13489	A	627	62	281	SGVYFSVQQLKLTQHLLIGFLP*EYP TLTTFEGEIISKKHFFLTKWDADEDVD RKHWVKSKDLCWWI
5439	13490	A	6270	2	250	KKARRSGVILAHCSLELPGSSGSSLSPA SSWDYRSAPPPSNIFLLF*GRVLMLP RLASNWAQAILLRWPVKVLGLQV
5440	13491	A	6271	118	184	QKEKL*KMGAVLKSLCNASILURNANKC NNRRKSYQPFSFMNIDAKVNLNKI
5441	13492	A	6272	798	1096	KIMLEHLYSFEEAERSRSVIQAGVQWRDL CSLQAPPGFTPFSCLSLQSSWDYRHLPP HPTNFFCISRDEVSPC*PGWSRSPDVIC LPWPVKVLGLQA
5442	13493	A	6273	3	163	HASAHASGHASGAEKGKQAEVANQDST EDLPANEAEKTDDSPASDEAGENDA* DEAGENDA
5443	13494	A	6274	3	330	INRFYFLQSIKASARSTQG*VSSCTKLOIF FFFFEMECSCSVTQAGVQWRNLSSQLQPL PPGFKQFSCSLSPSS*DYRCPPPRPANFCI FSDRGVSPC*PGWSQTPDLR
5444	13495	A	6275	167	362	SPYGKSNLLEPSASRFKQFCLGPLNNW DYRLFPFFPGNFGVFKICNRVFFFWPSLV* TPDSRGIP
5445	13496	A	6276	2	354	
5446	13497	A	6277	196	321	EQTAKAKCPGAHEQVNK*NN*GHLLSPA HFSHLQLKQFDKMI
5447	13498	A	6278	1	923	MERWRDRRLALVTGAGGGIGAAVARALV OOGLKVVGCARTVGNIELAAECKSAG YPGTLIPYRCDLSNEEDIISMSFAIRSQHS AVDICINNAGLARPDTLISGSTSGWKDM FNVNVNLALSICTRAYQVHEGSGMWTD GHIN*HQ*A CLATRVLPLSTHIFYSATK YAVTALTEGLRQELREAQTHRATWOLR REEAAGYQAAITVKGKLGFCGLHPLSTS PRPGKAQPLRPSLIAQCISPGVVETOFA FKLHDKDPEKAATYEQMCKLKPEDVA FLVITYVLSTPAHOIQDQMRPTEOVITY
5448	13499	A	6279	28	311	AGVQWCRLSSMOPPPRRLKLSFHLSLPS SWDYGCTPPJARLIFVETGFHVA*AGL KLLSNSLNPT*ASQSAGITGMNHQAQPVI SIFKSSSFQ
5449	13500	A	628	1	395	
5450	13501	A	6280	1	304	
5451	13502	A	6281	62	299	LFFSPQTHPTQTAFLSSVIDLHITHCSYQM MLPESVAIVCSPKFQE*V*RAWFWVFQG GSREESLRGKGLYSCGLVLCKIP
5452	13503	A	6282	110	276	QSETLSQKKKKKKKNW/YKCGGTBL/LI QATREAEAEELLQTGJGRGCSPERLHGSTP AW,
5453	13504	A	6283	380	507	SMNPGPSPVCVMLITRIP/FCIAHAHLRCC MVL*LHHHFLRLSIC
5454	13505	A	6284	14	235	DRVSLCHPGGGGCSERSCSCHCNLAWVT EQNFVSKQKEKX*LYT*LVPMPSDGL HVAQDSFECSSSTQICKLS
5455	13506	A	6285	494	789	DHRFAPSILADFYFCRDGVVO*NDLDS WQA*PGLKDHLPS*DHRFAPSILADF YFCRDGVVQAGLKLSSSNVPALASQS AGIIGVNHCQTPLCLFKMMYFLNFICIH WVHLPAKEIPEPVFKLPRVYFYTIFNCLS K,
5456	13507	A	6286	3	107	HQLCR*LIHTHTHTHTHTHTQFYLFK** HSAC
5457	13508	A	6287	2	214	VDFFFFFFFKLDRRVSQCCPSWFSG*WL FIRTDHRTLPLQTPGIKQSSCLSPSRWDY KCPVQHVSLLSPS
5458	13509	A	6288	3	213	LKQNKH*SRILYPLTLSFMNEREIKSFS DKHMLREFVTRPDLQEMQKGVLNLK

					KGWHAPE*NLLKA
5459	13510	A	6289	1120	1668 SGDALPPLFLFNFRVTKLRLSSLWMLHG KQLPEPPNSRPTVETQKGSS*DT*PPR*SP *ACFHNSLSPRFQ*PTLI*QEHLITCLL*PG DFFFFFF*DRVLPCYGPWEYSAKTMAGH SPNLL*SSHLSLPSSWDHJRRMPLCLAN* KKKKFQRHGLMLPKLVLSWAQVIV LLWPBKVLGLQG
5460	13511	A	629	27	121 APTPDAMGHLYTED*ATITSWLCKVNVD DSG
5461	13512	A	6290	186	297 PNLLG*LNPPPPRLKHFSCLGLPSSWNKA IACHGAK
5462	13513	A	6291	59	132
5463	13514	A	6292	1	335
5464	13515	A	6293	1	457 PETRAGSIAQAGVQWCWCHLGLLQPPPG KRSCPQP*VTWDRYRTPSSPG*FLYFL* KTGCHHVAPGCLKL VSSSDLPFLASQSA GITDRHQPCCLGPKLWTLRKLLGDIFLW FHDLNLGYTLGRNTHEFSTSRAVITVFRS FKHSTPDFSG
5465	13516	A	6294	76	343 YTFSSELYFTTFLDNDSPKJIFFFFFFFF FFFETKETWIVLICLNAQGM*TPQK*EALL GNNTITHVTRLAHKSVLLT**IE*VHDSTF
5466	13517	A	6295	362	561 LEHNIFLSFETDSRSVAQAGLQWCNSSL QLLPPGFKRFSCISLVSRAKFCGPPQLN FTPIVQY
5467	13518	A	6296	3	349 FFILETEPSCSVAQVGQWPDLGSLQPHL PRFK*FSCSLLSWWDYRHAPPHSANLYI FSRDGVSPHWPGRSQTPDLRRTPLSLPK RLDYSVSHRAQPWPYFRNKEEARPNPF S
5468	13519	A	6297	42	266
5469	13520	A	6298	106	860 RRRRLPSVAIMIIYRDLJSHDEMFSDIVKI REIADGILCWEVEGMVSRTEGNIDDSL IGGNASAIEGPPIEGEGTEQHS*SLVVDHC HRTYHLAVKASFTKEAYKVKIKDYM INQQGNLKKQQRPERSKTFY*QGAVEQK HILA*FOKTTQSFMGEUNMNPDGMVALI DYRED/GVVTYPMIFKDGLRNKGKVNWK COOLFWDLSPVIINWASAWSSTOHQGLK TKWGLMVIFELLHFILDWGFILEVAIVF
5470	13521	A	6299	10	281 SRSFLSFFLFVEMECHSVAKSGMQWRN IGSLQPPPFGNFQFSFLSPNNSWDYRCFLP LHLANFCIISRDKVSPCWSAWFSRST*PT PDLK
5471	13522	A	63	547	644 IPGRPWRL*S*PVILRLQPQATSGG*MVR ASL
5472	13523	A	630	128	379 FNSRSPSLRIGLFCITCSLWDCFWCCWIHA SLSYVISRLSLSFGTLVCFSLFCVAFLSFS *VVLFLFLFISSGFSFVFLVLF
5473	13524	A	6300	3	111 FIKIHGLPMLPRLV*NSWPQAILLPPWP VLLQQA
5474	13525	A	6301	2530	4923 TVPIIH/AFLFFF/CFFERESYSAATQGVQ WIHNLGSLQPLPPGFK*FSCSLSPSCWDC GIIGGVSL
5475	13526	A	6302	2	300 GSFALVAQAGVQWWDLGSQQP PPPGPK QFSCLSSLSWWDYRRALPWLNFVFLV TGJHHVGQAGL*LTSSDPALASQSAGI TVGLGLASTYFIEVI
5476	13527	A	6303	1	453
5477	13528	A	6304	305	432 FLHFK*MMNNMGDEDVLDLPEVDGAD DVSLKILFSVYFHTIK
5478	13529	A	6305	3	306
5479	13530	A	6306	1	122 TRPEFPGRITPSQKG*GKKEKPET*KER TGPSEKGETKA

5480	13531A	6307	2	392	CSCSAEASSGGAAVPVRCTFCFTDIVI MPKGKSPENTEGKDGSIVKTQEPTRRS ARLSAKPAPPKPEPKPRKTSAKKEPAGK ISRGAKGKEEKQEAGKEGTAAPISEHGE TKAEEAQKCTESVDNEGE
5481	13532A	6308	3	426	AGNNSIQGHGGWTLRHSILSFLSLPPFSR GPOCMGAQVPLVLPQRDRASLRLCGLLG YDSTATGLY*ILCMLRRHPGVMPSCGAR VLRDHNPEDIEWLCSCLSLLEVLSGSLSST PLTLADQAGHSGGIMPLEGLSRLSDCC
5482	13533A	6309	3	372	HAGLGGAHPLLHPVIIQEGFLPAPRGFGY RSEVD*IRIPAESTQNSQNCQLRK**KDD YFHCGYFCGCVCTCRRLQSSTSQQCQA AI*LLLPPVCLTMLRCISLIYT*NLTKVHS VRJUNFIYN
5483	13534A	631	1	371	RQGPQGGRRAAPRPPMPGPPLSSARHALP LGSWESWCCLIPADRPWDRQHWHQWL EMADTRSVIHETMMQASRKEIQSLPKNG SFPSNTNEMRLYYYSSYNQASE*P*KLSRP GLWDPIGRAKWD
5484	13535A	6310	1	230	SGRPFPLFFQFQKERVYFIPVVVLFYTVVV Q*LRKNNVRWQKTMPEPPRSWLMQLGH TEEGPGYPLLGEGETEKLFRTA
5485	13536A	6311	2	100	RRPFFFFFFFASCI*NLI SPNVQLSNFTCLRN
5486	13537A	6312	2	192	
5487	13538A	6313	1	451	
5488	13539A	6314	231	1335	
5489	13540A	6315	636	852	FRGSGPRDKTPNCILSLLFSWQPHYFLQR FLYAKLLGLLAELRSINEAYGYIYHQIG LSAMMMLL*EICS
5490	13541A	6316	1	690	
5491	13542A	6317	3	302	GFRGCKPKQALAATWC*LCSCTEVKN*G LGTSIWEDVRKHLDVQAEVCKKGAG LVDDNLCGSTEGKGCVRAPTQSPQWGWT AWWSYQKRATILQPEW
5492	13543A	6318	1919	2245	PMQRSP*RT*WS*KPWQENYVMRAQDS VADSINWKKG*ORLIK*MK*SKKRSL KKE*KEMNKASKKYGTM*KDQIYVGLV YLKVTRMEPSWKTLCRILSRRTSPT
5493	13544C	6319	395	1096	
5494	13545A	632	323	585	SQHFGRTRKPEDSLRPGI*DQTGQPRTLF LQNLLKKLAGHGACLQSOLLGRRLRWE DRLISGV*GCSDT*LYHCTPAWVTEQDP VSE
5495	13546A	6320	304	475	PRQTGSVGDLRQTPTDLQLRV*LLEGKI TNRKGHHLQNPICTSPSSKTGKDQIVV
5496	13547A	6321	224	1767	LCILSNVSAGLHPFTSYCLLHEKKFKAAV LSLGGGGCDGADGADGGDGSGMAKSGP LAAGLLEFAGGPLQTLFAWSAEEAAB QPLILNSKCCCLIVPLEASSWRGTRCPCEV VSEAGASISYVSPEANKEMPGLDPNLRS AVSIARRVQDPLAELVKIEPKHGVGMY QHIDVSQTLKATLDSVVEECVSFVGVDI NICESEVLLRHAGLNNANRAKNIEWREKN GPFINREQLKKVKGLGPKSFPQCCWAFI RNQPGYPNVLSQSANLKLQAKFGQGVAV TSSADVEVTNEKQGKQKKSXTAVNVLK PNPLDQTCIHPESYDIAMRFLSSIGITLYE VGKPEMQMOKINSFLEEGEMEKAERLQT TVHTLQVHHRWFVSOPPEGFDFTDF*T WIFKEEGIVCLEDLQIGTVLTGKVENATL FGFVIDGVGKSGLJIPRNVTEAKLSKTK RRSLGLGPGERVEVQVLNIDIPRSRITLD LIOGVMSIPRRPDADFIFSFPQIDKDKSV CKL

5497	13548	A	6322	2	64 AFRFSSSVRIHERSHTGEKPYECKQCGK AFISSSHFRLHERTHIMGEKV*EYKQHSE AFGCSSF*IHKRVYTGQLCEYHKCSK ALD*SSFP*ARKNSHW*ETL
5498	13549	A	6323	168	499 VCSSAKQ*QTCFLSLVSPTM*NLIKEFLNN IKFPQQDGTSQLVSGENVDYRKIVGVS GVGSYLGSKJFRLGAVAHTCNPSTLJGR GQQTRSGGDHPQQGETPSLLKI
5499	13550	A	6324	165	548 SPSQHSLLVPSTPLPGSVLWGIGGLCPAA EGSRSSQQGDGWLRRSSVDLAVGDGEKG EVPRPLALGCDLARDGSRTLSPLGPCKPK LGQRWES*ELRKVPG LAPDL SVESAPRS WEAPECQQMLQLSP
5500	13551	A	6325	18	225 TLGLK*SSHLSLLSSWDYRCPMPHLAN* NFCLFVE*RWGLAVLPRLLLNSWPSSAIP PWPLKVLIELOV
5501	13552	A	6326	724	900 MTSFSDFKFQSFFQNRRGSTIVTIAHFWSRKY LSDKECS*NACVVFIHSI*KWANTKTIFP D
5502	13553	A	6327	15	185 VPENPWVDPVRVRPRVRFNSTGTRCCA H*IS*LQSGSSQASLCRYNEESQKHAI SLSEKHNPOTYOEEERMRIRQKAGGNVR*PR QACVVIIMRRVKNMQP
5503	13554	A	6328	199	544 PARLGLEEGRYLITGRGVWWWLTPVIPA FWEAEVARSQGOKIETILANMVKPHLY* KYKKKLLAGGGGGYL*S*LLGRLRQENG VNLLGGGACSEPRSRCHCTPAWATEQDSV SKNKK
5504	13555	A	6329	837	1096
5505	13556	A	633	1	231
5506	13557	A	6330	454	526
5507	13558	A	6331	258	483 NTVSTRKYKKLARRSGGCL*SQLGRLR QENDVNPGGGACSEPRSRHCTPAWATE RDSVSKKKKKKKCFQSSILK
5508	13559	A	6332	3001	3080
5509	13560	A	6333	6181	6292
5510	13561	A	6334	3	222 ASVTACRLNCQGCSCPQFCPHLAAPL P*VPNPQLETPF*ARTQRJPLPSG*PGTIPS PKPTNHIPLTDL
5511	13562	A	6335	2	227 FFETERSLTQAGMOWPNLGSLOPPRPG FKQFSCLSLPSRWDRDHMPGSLANCFIFS RDGVSPY*SGWS*TPDLR
5512	13563	A	6336	2	218 TWRLAVAQAGVQWRNLSSLQPLPPGFK *SSCLSLPSSWEYRLLPPR PANFYIIFSRDR VS CWP GW SQT PDLR
5513	13564	A	6337	31	165 GSHTVTQAGMO*SNHGSLLQYLPSLRRF SYLNLPSSWDQRSNKEG
5514	13565	A	6338	122	376 KMGPLSSSLPEAECPDFPRAATLGMNKM LHSHWVSSIAVPD PGMG*KAASGPDFET QQAEARLSPPSLQESSWPGDFPHQC
5515	13566	A	6339	3	268 GRVAVRKEKGFSWLVVFNWLSLDLNWPL PPLPGEA*TFLKSSLRPARAPRPPPQT PSPTPRSLAVSSEOWRLLSMTLESLDPL DL
5516	13567	A	634	1	686 ARAGLGFSCGFGVPDFSGIIGGAMSSFFGQ MAEYPTISIDRFDRENLRARAYFLSHCH KDHMKGLRAPTLKRRLECSLKVKVYLYSP VIKEVLLTSPKYRFWKKRUISEIETPTQIS LVDEASGEKEEIVVTLLPAGHCPGSVMF LFQGNNGTVLYTGDFRLA QGEAARMEL LHSQGRVVKDJQS VYLDTTFCDFRFYQIPS REECLSGVLELPVKLDHSEPVPCVAEL Q
5517	13568	A	6340	2	218 JYTHIH*IDPMFSL.*GHMEGEVWGLATHP YPICATVSDDKTLRJWDLSPSHCMVLA RKLKKGKRLSHLNVD

5518	13569	A	6341	1	5748	MPLKLQNCLALHPERVLVATGQVGKEPYCICWDSYTVOITSVLUKDWHTHGIACLAFDLGGCSVKAVIDNARRNECGYIPVKLYLQKHFSLICLPFYSFLDFLDINQRLVSVGLDSKNAVVCWDWKRGKMLSMAPGHTDRFWSLCGNALTPKRGVFGKTGDLQTILCLACARDELTYSGALNGDYYWWKGINLRTIQGAHAAGIFSMNAECEGFATGGRDGCIQLWLTTFKPITVIDLRETDQGYKGLSVSV
5519	13570	A	6342	2	252	PPE*LGPNGCQGPPTPLPKFW*ILSKKNGGSPPGPGPILKPP*PLRWIPPCPLPSPKCLRPGHKPSAQOPEN
5520	13571	A	6343	289	395	SIRICPHRDTRKEYNSYTHAFLINLLKFAELDCIVYFLRNDNM*MFRCSTIFYNPALAFLHILRKPPTSFF*GRFLLSEMPCM'LLLII'MPNYLIQIKRSI
5521	13572	A	6344	262	389	POVFTSIASRYATILL*FF*PCLVFYSLNQFYVQGKLANA
5522	13573	A	6345	1	103	QSFTYCFESF*NLSVFLYCLIYRITN*VYYLYVE
5523	13574	A	6346	7	156	LFSFHSGTMAHTCNCPSTLTG*GRIT*GLEFKTSLGNTVRSHRYRKKKIA
5524	13575	A	6347	94	469	NCIYVIKVYNLRHMYPTITAIIISTRFKIYWYSSLIFS*ICIHIFETRSLSLPIAQAGVWC HDHSSLQPLPGLR*SYSLSSWDYRH TPPCSANLCVCVCRDRRVSPCYPGWLLN ILNVII
5525	13576	A	6348	1	226	FFEMESHSVTQAGVQWPDLGSLQPLPPG FK*FCFLSFPSSWDYRHTPPHPAY*CIFCSR NGVSPCWPGWPRTDPPR
5526	13577	A	6349	3	308	KDEKEEDGKEDKNGNEKGEDAEND DGKEKGDKKEGDKVVKDEKEDERDG KEDEGGNEEEAGKEKEDEDLKEEEEGKEED EIKEDEDDGKKEEPOSIV*NCPM
5527	13578	A	635	52	264	GLLVGVGAAAVMPGIVELPTILEELKVDEVNISAAALKDACHDYGDWEWDKPNVDIM L*LEQLHPSMCGQAL
5528	13579	A	6350	1	239	MDGGTEKPFACPVIL*CTKRYKNVNGIK YHAKNGHRTQIRVRKPFKCROGKSYKT AQGLRHHTINHFPVSAEIRKMMQ
5529	13580	A	6351	219	688	RRMHAYVSLDPLERPPFFFFLFFFFFFLRRSFALVAQAGVHWRLDGLSPQPPPPRF K*FSCLSPSSWNYRHAPPRAFPANFVFLVE TGLQLPTSGDLPASASQSVGITGVSHCA WPGNWLLKETRCGSSVGQRQTGPITPDAWVDPGIPDRYLA
5530	13581	A	6352	3251	3700	KWPYWLKEESSKLLIHQFTS*HSNLGN* ASGLRTLPHYRAEQGKE*GMOTSGR*TR* KEALFSITTDQRRPAVGSSSLPAGHLCSS QQRRAFTDLRGEDVLADWSMGGYGVWP RRGPRITLVGRGAHSMATTITDPHRVL PAYIQCSPCI
5531	13582	A	6353	3	347	DAWEQTQDTELVETRPAGDGTQKWAA VVVPSGEEQRYTCHVQHEGLPQPLIIRW EQSPQPTIPIVGIVAGLVVLGAVVTGAVV AAVMWRRKKSSDRNRGYSQAAV*DSFL VWD
5532	13583	A	6354	3	174	

5533	13584	B	6355	10	720	MAPRTLVLLSGALALTQTWAGSQSMR YFSTSVSRPGRGEPRFIAGVYVDDTQFV RFDSAASQRMEPRAPIWIEQEGPEYWD GETRKVKKAHSQTDRENRLIALRYNNQSE AQSHTLQMMPFGCDVGSDGRFLRGYHQ YADGKDYIALKEDLRSWTAADMAAQI TKRKWEAAHVAEQQRAYLEGTCVDGL RKYLENGKETLQRTDPPKTHMTHPISD HEATLRCWALGFYPCGDHT*
5534	13585	A	6356	3	223	
5535	13586	A	6357	1	179	RSQVIRHQRIPTGQKSYSKCHKC/GQGFSL RSLSLAEHQKIHF*DN*CTGNEYSKPSSIN CH
5536	13587	A	6358	38	294	LHLMQNRRLHTGDKLHKYDDCVGKAFT SHSHLIRHQRIHTGQKSYSKCHQCQGKVF SLSLAAEYQKIVF*DNSSECNEYSKPSSIN
5537	13588	A	6359	2	244	
5538	13589	A	636	1	380	KIISVCGRARASCSSFASVLFILSKMVRE QYTATEGICIERPENQVYKIGYGVWRK RCLYLVLGLLLMLIVVNITLTIWLNVTW VSSTSTAPHRVH*NSLCAETQLQLRLPK RORHVNFEPVY
5539	13590	A	6360	339	1079	I079LPLPLLAGGTIDISCFGMHNFSLPVYK GEIARNLGMAVEAQNNEE^KAGWGEG ELACTKIPCPQTTHFWNDENGKRYKA YFSKFPSPSIWAHDY^RNPKTGGIVMLGR SDGTLNPNGVRFGSEIYNIVESFOEVED SLCVPQYNKYYREERVLFLKMASGHAFQ PDLVKRIRDIAIRGMSARHIVPSLILETKG IPTYLNGKVEVAKQIAKGAVEQGGA FSNPETLDLYRDIPELQF
5540	13591	A	6361	1	1047	MVSDISWPDLPLASAQSAGITGLIGALVL SVGIYAEVER/HEI*NP^KCLPGSSHHP PGRRHVVHGLLHWCAVGVPP^QGPELLASL RLSGYGLVLSLWLEPRYEKMISGMYLG EIVRNILDFTKKGFLFRQOISETLKTRGIF ETKFLSQIESDRALLQVRAILQQLGLNS TCDDSLVKT'VCGVVSRRRAAQLCGAGM AAVVDKIRENRGLDRLNVTGVDGTLY KLPHFHSRIMHQTVKELSPKCIVSFLSE DGSGKGAALITAVGVRLRTEASS
5541	13592	A	6362	2	55	TPFLRFSFTLVAQAGVOWRDLGSLOPPPL RFR^FCSLSPSSWDYDRCLPPLLANFLHF QQRRTFTILARLLVVSNS^PDLPLASAQS AGITGMSHHACPVI^FFFETEFHSCCPGW SAVA
5542	13593	A	6363	167	293	VVKKLLGILLNQMKTKMNFGDGLFTVMT QKMSEKDTKEEILKSSQFHIIHQRA^KLF DDDETGKISGFL
5543	13594	A	6364	3	226	FLR^SLAVNQAGVQGRHLRSLQPLPPRF KLFSSLYLPSWDYSHAPLFFANFCIFSR NDVSPCWPGRSQTPDLK
5544	13595	A	6365	1	648	
5545	13596	A	6366	26	612	VGAGGRGRWFRAAVRRAAGGLRPGP APGPRAGGGGPRGAHLALLRRAGALRA GKEYGKADARWVYFDPTIVSVEILAVAL DVSLLALFLJYIAVKEKYYRHFLQTILCVC ELYGCWMITLPEWAHPEAPNLQQPATG WLYWLQFLFFF^RCVGFILPRNWLWA VHGPRTSRKWIQKGNQFWKEVFSGT QNP
5546	13597	A	6367	3	292	TPWLRDFHDPIVEEVSVFGEPLLFSAP GLPPEPRAGHSVSPSGLSVVAFFSFSDNVP GSLEHLLVLFHPPGDSVLLRPLCLP^ETF MPLSRLRCPCSRVSFSQHQACLSLGL VILSPVAVSWLHFRLTMSPVWPSIFL FSISPGATCPSCALCAFLRSRSEELRSHLCH R

5547	13598A	6368	237	1202	
5548	13599A	6369	2	58	PRVRRCFIYTGKAPNLDMADDLAAAD KVR*EGSKPRQNG
5549	13600A	637	23	360	LCSQATLSSIFSQQYQKHICRTHAKHHT SEAISSYYQRYLNQGVVKNGAAPVLLDLA NEVDYAPSMLARLILERFLQHEETSPFK GIINMMRLRYPSPQIPDGALAY*VYHGK
5550	13601A	6370	1	1136	MSSGPVAESWCYTTQVVHFIFNCFLFFYQ QIKVKIPSYMWITNNFSFCREEMGEVIK SSTFSSGANDKLKWLCLRVNPKGDESK DYLSSLVSCPKESEVRALKFKPSILNAK GEETKAMESQRUARYFVQGKDWDGFKKFI RRDFLLEANGLLPPDDKLTLTCEVSVVQ DSVNISGONTIMMVVKPCCRSLADELGG LSENSRFTDCCLCVAGQEFAQHAKIALAA RSPVFSAMFEHEMEESKNCRVEINDVPE EVFKEMMCFIYTGKAPNLDMANNDL AAADKYLALERLKVMCEDALCSNSLNSVEN AAEILILADLHSADQLKTQAVDFINYHSA DVLETSGWKSMSVSHPLVDEAYRSLA SAQCPLGPPRKJLQS
5551	13602A	6371	21	358	GCRHSASCAAPRALGPAPARPQR*PKAGR VFPERIS*T*G*PAGPRHRHGPGRGRRR RSGCSRVRSSVRDC/PSSRSKASNPPLSL SSST\GCDGARPPCSV*WSRPGARR
5552	13603A	6372	1	1458	SPRNL.PVTIISQFDGADSPRTNGQEADD SSTSSEPSEDSKYTFPLYHPPQRMLNKGI QLQRAKSPISLKRRTSDFQAKGHHEEEGTID ASPSSCGSLPTINSFTKMPRSSLMSMISITA EPPGNDSIVRRYKEDAPHRTVEEDNDS GGFDALDLDELAAGETVQSPGPVGPCQP PLFOGSPLSQLRLPITDETKEDEWSLIMG KHQRYQVLKRDDSSHHERYSFGPSSIHSSSS SHQSEGGLDAYDLEQVNLMFRKFSLERCR NRGPORRGLAKAMIQHGRGRKEVGPGRYP AVPIHDTVEPDPSGLRSPWLWTGCAQOGP ROSTRR*MATASPPSSPCWGATREGASC TRSSLALWPRKPASVTRATSCC**KAASE AGRGRVSRWTHAFKRPPTGPSRGAAAPS RCTKGOPRSPAENPWACRU*CQHILQSP ELRSSTALQVWNSRERKFIPAGVPEAGE GHGGRPDHIGGLVLHPAEPEHLQPAGRL HHIVEV
5553	13604A	6373	103	226	CCFEILKLMKILISEMHLMLFL*QLRKS A*IPVPELFILS
5554	13605A	6374	112	303	
5555	13606A	6375	3	109	AWKFFFFYFILLFFFLEKHHFYYVQ*NISL A*KKK
5556	13607A	6376	22	175	THDHVSVYFFFGLKSTEIQCQDJKMQIFL FI*VHENHLPVSIYLYKFLWIL
5557	13608A	6377	1596	1878	TMSDTTFKALR*QLPVTRTKIDWNKILSY KIGKEMQNA
5558	13609A	6378	394	626	SDSVNPQLRVKILN*SLGILKTHIQKLF FFFPSALTALGILLVCVSIYLYGLPRQD TTSIQQGETASKERVIGV
5559	13610A	6379	2	101	KTLVPLIIPITTLANPCKKD*YPPPVKISI AC
5560	13611A	638	1	77	
5561	13612A	6380	1	297	SRFKRFFCLSLPSSWDYRHAPTHALNF VFLIETGGFLHVQAGLKLTT*GDLPALAS QSAGITGGNHICRQVQCFRCRWGYTIRES GQKLDPARVMFENK
5562	13613A	6381	1	394	TGTHFHFYLLVLLFLEMGPQSIQADV QGHNHSSLQPQITPGLKQSSRLSL*NSWD YRHTPPHANFRFLR*RQGSHYVAQG*SQ TPGLKQFSR*GFPKRWGYRHEPHMAR DRYSYCPHPDDETDGPER

5563	13614	A	6382	3	160 QL*WSHLLKMLQRYSSCNV**KRRGLIR TYGLDMCSQSCLCQYAKDIGFIKLD
5564	13615	A	6383	1	1240
5565	13616	A	6384	3	3129 KLGSMEPAPARSPPRQQDPARPQEPPTMP PPTPSEGRQPSPSPITERAPASEEEFQF LRCQQCQAEAKCPKLPLCHLCSGCLE ASGMQCPCIQAPWPPLGADTPALDNVFFE SLQRRLSVPYRQIVDAQAVCTRCKESADF WCFCECEQLLCACKFEAHQWFLKHEARP LAELRNQSVREFLDTGTRKTNNIFCNSPNP HRTPTILTSIYCRGCKSKPLCCSCALLDSSH SELKCDISAEIQQRQEELDAMTQALQE QD
5566	13617	A	6385	2	416 ACCILLYRGDMVPKDVDNAAITIKTKRRI QFVD*CPTEGFMGDGINYOPSTTVPVNEILD KVORAVCMSNTTAIAEAWARLDHKFD LMYAKRAFVHWYMGEAMEEgefSDAR EDMAALDKDYEEVDAHSVQR*GDEDGQ EY
5567	13618	B	6386	95	412 TNRSIQFGDWCPITGFKVGINYQPPTAVP AGDLANVQRAVCMMSNTTAIAEAWARL DHKFDMYAKRAFVHWYVGEGMEEGD FSKAREDMAALEKDYEVECVDSVE*
5568	13619	A	6387	2	614
5569	13620	A	6388	151	1605 RGKTLRGLWRFGKIPITHISRENACRESCISH VQAGVQIGNACWELYCLEHGICQPDGQ MPSDKTIGGGDDSFNTTFSETGAGKHVP RAVFVDLEPTVIDEVRTGTYRQLFHPEQ LITGKEDAANNYARGHYTIGKEIDLVLVD RIRKLADQTRLQGFLVFHSH*GGGTGSG FTSLMERLSVDYGKSKLEFSIYPAPOV STAVVEPYNSILTHHTLEHSDCAFMDV NEAIYDICRNNLDIERPTYTNLNRLIGQIV SSITASLRFDGALNVDLTEFQTNLVPYPR IHFPLATYAPIVISAIEKAYHDQLSVAEIT NACFEPAQMVKCOPRHGKVMACCLL YRGDVVPKECHMLAIPSPSKTKRTYPCF VDWVRPSGFHRCGISTIOPPTLLPGVGD TGARYQRCVHC*ANTTAIAEAWARLD HKFDLMYAKRAFVHWYVGEGMEEGE FSAREDMAALEKDYEVEGVDSVEEG EEEGEET
5570	13621	A	6389	1	251 CLKIEISFLNGSLTPGAAVKSWLTAACS FKGSCLSLSSSWNYRCAPPRTNFCIFS KDRVSFLFLFLSFLPLLARLVLNY*PQV IHLWPWTPKVLGL*AAVKSWLTATSACSF KGFCSCLSLSSSWNYRCAPPRTNFCIFS DRVSFLFLFLSFLPLLARLVLNY
5571	13622	A	639	34	421
5572	13623	A	6390	3	445 RLFFFFFVFLVEMGFCHVQGAGLKLVTS CDPPTSASOSAGIAGVSHRA*PNTSLK*K LTDKSPGICFFVCFIES
5573	13624	A	6391	2	176 CKFAIHGAELHEWEERRDALGMKLNK ARKDHLIGPNNDFGKYRFLFKDLN*YA GFYV
5574	13625	A	6392	186	374
5575	13626	A	6393	872	1122 LRWPWKPLCSSVERI.WLPAVELLPPPAG VLPOPSAQYGERRTGLTCQGGPGRAG PSMGCTGYT*RVSIQVASGPFIHHWPL
5576	13627	A	6394	3	415 ERLWLPSEVLLPPPAGVLQPSAQYGE RRFTGLTCQGGPGRAGPSMGCTGYT*R VSISQVASGPSPLASRMVQRGWLGPFVR LLPAAALGDMCAHLASSPCSPILLTVPR ASQVPPKELEDPISPCSPCLRKVSQGP

5577	13628	A	6395	3	349 VSVVFLCSKRFAQWSHLAHOQLLHTG EKPPCPLECGRCRFRQRWSSLAVHKCSPKA PNCSPRSAIGGSSQRGNAH*KGKDCLRSF HFMEGPRKGKEEPQVIQGRVRTRKPGSPA AQS
5578	13629	A	6396	2	352 EGAAPSSGGPLRDFWFGRPRNTNPKCSGT G*SLQRICWMASLAPPGPAPRQOAPHITH RPLGRPSRGAQVOPAAQAGQATSKQSP GPGFWSQLPQDLTASVSPSNGASKAC LECKS
5579	13630	A	6397	2	361 GGEDPPALCRKPTAQTTQGKKHSGTA VRSERHKEVRAGHSISALDSSPSSLLGI LSPVHQCDVTRVDPIPSSLTALLWLPSP K*RESEPHKPGVGDPVVWSAPPGEDLILL ATSAH
5580	13631	A	6398	11	967 GSWSGLARPPGGWNYTGSKKLSPGGE AI/*MKRSKELITKNHSQEETSIURCWKR KCIASSGCFMEYLENQVIKDKDSDVSDAQ NICHWHMNVEALPEWISCIQKAQWT VGKLNCPFCGARLGJGFNFVSTPKCSCGQ LAAVHLSKSRTDYQOPTQAGRLMRFSVK YLSHIPVQSGCDKEALLTGGGSENRNHR LLNMARNNNDPGRLEALCLEVRPTYFE MKNEKLSSKASEPKYQLFVQLPVLTGRCA TRAFRKSHSILDLNISEKLTLPLTLYEI HSKTAYSRLLNETQPIDLSSGLPLQSSKNS YSFQNPPSSFGS
5581	13632	A	6399	105	465 SRAYCSLTLDFFPLKQSSHLSLPQVAGPT GACYHAWPIF*ILAQMRSHYVARAGEL LSSRDPPASAQSAGVTGISHHAWPVILL LYLAGTOSPEHFIYDGLDNVSSCLHANF SSLSYST
5582	13633	A	64	647	885 TGNLQNGRKFSQPTHLTKG*YPESTMNS NKFTRKKQTTPSKSSSPQRTRHQRQPW GSSQLPLAHSASPGRGCSQHFF
5583	13634	A	640	3	345 DAWAWPLNRRGFFRMMDIDGAAGVMQ GGDSEVELLDIPILKLPDGSDIPLPILLGRL GFHPLKNTVCIYGHLDVQPAALEGDWD SEPFTLVERDGTLLHGRGSTDD*VPLAGW INA
5584	13635	A	6400	1	462 HKSDGSTVSPVMMAQONTKFNHYTEFTTP DGHYDDILELPVHGDTLSMFIAPYEKE VPVPLSNTNLSAQQLISHWKGNMTRLPPLL VLPLKSLETEVDLRLKPLPENLGMIDMDFRQ FQADFTSLSDQEPPLHVQAQLQKVIEVN ESGTVASSSTAIV
5585	13636	A	6401	3	569 NQASLSFLHLRPFYSQGHLLRGTPLGRGWGK VGAASQRGPRLQEPALAIICRFSLETEVDL RKPLNLGMIDMDFRQFQADFTSLSDQEP LHGPQAL*KVKIEVNESGTVAASSSTGESG SGEAPRVSPSPFRITGPQTRKGPRSPSLGT EQLCLCSAITHSPVPSQPGKRAWDHGTLPRLMAP KFPDCEKAS
5586	13637	A	6402	3	194 FFFFCTQMFITAI.FITAPNWKQPRCPSIG Q*TNLFNEAVLSREESIKTKTRDRCYHM DRISK
5587	13638	A	6403	2	223 EMESCSITQAGVQW*DLSLQPPPFGQR VSCLSFPSSSWDYRYLPPRLANFCIFSRDG VSPC*PGWSRTPDLR
5588	13639	A	6404	2	247 RLFFFF/CFFEMESHSTQAVVQWRDLG SLRPPPPGFKQFSCSLSSWSDYRHTPH PANFCIFSRDGVSPCWPG*SRTPDLR
5589	13640	C	6405	65	211 MSPNWRWGPPCLATPQGVTPSDTQPCQ ALGLGPHPRNVRQPIIIISGTG*
5590	13641	A	6406	1	112 GGRGCNQS*SRHCTPAWVTKQQGPISIDI LIRPLP.LI
5591	13642	A	6407	259	380 GCVQQGVNVQHCAQQHL*ENGGPGSS DCOWHRGHPLCRL

5592	13643	C	6408	5	160	MGFEGGPKILNWFKKVVQXSCLXKG QXESIFLNTXKVRAGDTXSVLG*
5593	13644	A	6409	117	207	KKTMFQRQLFYKRKQLQKGPRP*GAGF KV
5594	13645	A	641	1	1254	
5595	13646	C	6410	155	394	MLKWIYRIFVNLFLVFVRRFNCFLCAEC ISLPGQECGGAEVSSFSRTFPQHLLSLYL MXXXXXXXXFLQALGLCYPIQ*
5596	13647	A	6411	68	547	LDNRCCERCLIEGGWLTSHTAPRGKGTW GKKEPASWGWGQCW*RGA*WPTGC KQGRGGSPSPQPLGSQGRHEFGQAKATK ASPSSGEGDKGPRPRQQGPSPWSRKSSPRPI SDPPPTPGDKGPSPSTSLRL+TRLEPDLV LQISAGPTRWTLLSAVLO
5597	13648	A	6412	11	321	KNFYLF*DGVSLVAQAVQWRDLGSPQ PPPPIKLSSLCSLSPSSWDYGHVPTMPG* FCITSRDGVSPCWSSWSRNRSRISDASACL GLPKCWEFTRRDNSAPRS
5598	13649	A	6413	17	237	YVAQAGLNLLASSQSSCLSLPKHWDY CEPLCLAFFFFL*RQGLAMLPRILPPKSI SIRWRNGQKHMHQVL
5599	13650	A	6414	806	1680	AMGIHCITTTTERSMPTTSAAVLPGP ROWQLOLPPCINTQSRPCPSCHKSRIQPW PVTSPPPLSIIPTIDTCRPOELLQPLLLQQ QPLLLLQLPLHITGGIGAPCVALQPQSP LLERATVTGMRVSCPKLQPRGILCTTW PGMSGSSMPIGRVATATNAKARCRHAAD TALPAASASCVGTTAAACWAAAASAT TGPSCACCFMPASPCTSLLCWLHCRP CECPTRPSTWLPSSCPFGSC/CRDHHCRL LGRCVFGNYRFCLLL/SSCR/PSCSTS LCCWLHCRPCECTRPSTWLPSSCPFGS CCSQPHCPPTLWSTLTPLSHGRWLQSQ TLSSPWALWKRSVSGSLH
5600	13651	B	6415	61	516	MTLKLKNLADDAAVSCLVLGNTENKELL VLDPEAFTILAKMSLPSPVPFLVEFGQFD VEFRLLAACRNGNIIYILLRRDSKHPKYCIE LSAQVGLIRVHKVVLVVGSTDQDSLHGFT HKGKKLWTQMPAAILTMLNLEQHSRG LQAVMAGLANGE*
5601	13652	A	6416	360	861	RCGSFQLLPPMPKPADTALPAASASC GTTAACWAAAASATTGSPCACCEMP PASCSTSLLCWLHCRPCEPTRPSTWL PSSCFPGSCCSQAECLWHSLPWPS*RTA WRVRCCAGLGCCSMGCCCGARPHGSG LGAStPMTWVPAITCRQWPAPRRLGP
5602	13653	A	6417	2	263	NRDGPPTAACWAAAASATTGSPCAC CMPMPASCSTSLLCWLHCRPCEPTRPS TWLPSSCPFGSCCSQP*SPLSSCKPLKPP F
5603	13654	A	6418	18	211	NEPRASITLTSSKAGQRQAPWTLFPNSYP L*EYPPANPFQGGPJDRCRAQTKDMGAQ APRVEAPG
5604	13655	A	6419	2	548	NGFRGAHSQQCPPACVLPGQAMSTGGRQ LPIPCMNPPSPGDSMDAVKGAAVDLQ GTWKGAKPLGLWHCGG*PIENRAGAGE T*SLH*TPVRSPGFLGTSPMGSPGPALKN HGSCARPLLSPLPYPPERPLPPPWHLSQ EDLPPRPGPEALMPQELGLERC*YPLPQV PRFRGTTGAGLVOA
5605	13656	B	642	52	554	MOKEKTHINIVVIGIVDSGKSTTTGHLIY KCGGIDKRTIEKFEEKAEMGKGSFVKYA WVLDKLKAERERGIFTIDISLWFETSKY YTITDAPGHDRFINKMIIILNHPGQISAGY APVLDCHTAIHACKFAELKEKIDRSRGK KLEDGPKFLKSGDAIAVDMVPGKPI*

5606	13657 A	6420	368	623	LVCVFFFFFF*ERESCSVVTQAGVQWCDLG SLQPQQPRSKQFSCVLPSWSDYRHTPPC LANLCLIFKSRNPKFYIFIPFPNCYEWD
5607	13658 A	6421	42	179	
5608	13659 C	6422	28	219	MQLLLSKPKGSTIKXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXFRCHD*
5609	13660 A	6423	2	161	KNLH*MESVSVAQAGVQWHDLGSVQPL PPGFKRPSFCFLSSSWDSRLYFRCHD
5610	13661 A	6424	363	750	REQDPACAWSSS/APNSWSLHGAEAVSH RECLSPVLPGPDSKALSSAAAALSMS GRGGGSLVPFGPVGPSGVARWIASCVA E SCL * AGTRTRCTAPSEAT * SSTRGLSRG AASLAASVHIGSRMSL
5611	13662 A	6425	890	1879	LWGLVTSSCLSFSRNNFTIEFQEDLMLS DPLNLLSLVMWLCTLTWTSLAALSMSGG RGGGSLVPFGPVGVARWIASCVA GES CLA * AGTRTRCTAPSEAT * SSTRGLSRGA ASLAASVHIGSRMSL * VAGKPKGPGTE AAPSCRSSSIITCTPLTLSHSSTADRAL KASPLGLSLRGPGSSGGELCARLSPSSSGM DTFFCRLSRPTSSWRRFNNSLLALARPA ASAKPTALSTRW * ITCRCSSEL * TAKPCP VTVVMGVLCGGGFPWPVLPLLVSLQJA QQQHLASLPPFSMRMVRGAQAPSCRV RLPRARGETPPRLPSGR
5612	13663 A	6426	8	363	AEVQWRNLSSLQPPPFGK*FLCLSLPRS *DYRLAPPSCANFCMVKTPEHHVGQVG LELLASSDPPALASASQSAGITGVSHHA WPRASLLSLVIALKQASFFCSHAKPQVS OHFTN
5613	13664 C	6427	87	287	MIFFSFCVNTWCHSPFCATVTEYHSLIXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXWEGLP CCIIQRKVEG*
5614	13665 C	6428	11	328	MIIMYGXXXXXXXXXXXXXXXXXXXXXXXXRJ SEHILCIFRSNYRMIFPSFCVNTWCHSPFC ATVTEYPRLIXXXXXXXXXXXXXXXXXXXXX XXXXXXWEGLFCIIQRKVEG*
5615	13666 C	6429	76	276	MIIFSPFCVNTWCHSPFCATVTEYHRLIXX XXXXXXXXXXXXXXXXXXXXXXWEGLF CCIIQRKVEG*
5616	13667 A	643	36	695	
5617	13668 C	6430	7	324	MHIMYGXXXXXXXXXXXXXXXXXXXXXXXXRJ SEHILCIFRSNYRMIFPSFCVNTWCHSPFC APVTEYHRLIXXXXXXXXXXXXXXXXXXXXX XXXXXXWEGLFCIIQRKVEG*
5618	13669 A	6431	1	336	FFFFFFRQLSLVAQAGVQWCDLCSL*SPP PTLSTPLASASQVAGITGAHH*TGIFVFV VETVFCHVQAQGLELLGSSDPPASASQS AGITATVPSLL*LFIKQKQQKNRTY
5619	13670 A	6432	3	1105	
5620	13671 B	6433	52	936	MAYLKIQKYEEAEKDCTQAIILDGYSYK AFAARRGTTARTFLGKLNEAKQDFETVLL EPGNKQA VTELSKIKKELIJKGHWDVV LDSTQRQNQVVKPIDNPHPGSTKPLKKVI IEETGNLIQTNNDVPDSTTAAPEENNPNL ANVIAATGTTSKNNSSQDDLFPTSDTPR AKVLKIEEVSDTSLSLQPAQSLKQDVCGQS YSEKMPPIEIQKPAQFATVLPPIPANSFQ LESDFRQLKSSPDMLYQYLKWLLSHCQ DNTRAQRLEKAGWQLAFRLRYYYHLLDV QKITVCMWQKAF*
5621	13672 A	6434	1	309	LPPIPADSFSQLESDFRQLKRSRSPDMLYHD* KQIEPSPLYPKLFQKNLDPDVFNQIVKILH DFYH*GKKSPLLIFEILQRLSELKRFDMA VMFMSETEKKIARGII

5622	13673	A	6435	1	936
5623	13674	A	6436	1	1023
5624	13675	A	6437	602	744
5625	13676	A	6438	1447	1931
					RKVKWLSAPLDVSNCPSLCKD*W*RV* RMPETPBAR*GAENPTLPCCHYISIN/HPT VFSPFL/IFFFWR*SLTLVPQAGVQWRDL GSLOPLPGFKRFSCLSLPSSWDYRLCLPP CLANFLYF**RQGFTVLARMVSI*PHDL PASASQSAVFSYLIFFLPY
5626	13677	A	6439	1	74
					FWRPVRRQSEYKQVNKGQDSTFP!*CLQ TNIDYRFRVCA*RRCLDTSQELSAGAFSPS AGFVLQRSEVMLTGDGMGLSHDSKMNNS MMPITDEQIAAIALGFATLALIFGFI*OSE YKQVNKGQDSTFP!
5627	13678	A	644	62	1548
					PLAKMGKEKTHIIIVVIGHVDTGKST TTGHILYKCGGNDRKTRIEKFKEVAAEM GKGSKYA*VLDKLKAERERGTTIDSL WKFKEDDQVLMWTTIDCPRDTEFJQKH LQTSQGLAWFGPPFWGGSPLVCC CLVEFESWYSSKHWRPRREHALGFTT GVWKOTKLFGVNKNWIST*GHPTAQKK JLKEIVKGKSALTLRKIGYNPDTSILCPIS GLNGDHMPGAQMNPNLFWKEWKTIRK DGNSAGTTLEALDCILPPTPTDKPLGL PLQDVYKIGGITVPPGRVETGVLPKGM VVTFGPVNVTTEVKSVEMHHEALGEAL PGDNVGFNVKNVSKDVRGNVAGDS KNDPMEAAQFPQAQVIIILNHPGQISAGY APVLDCHTAHIACKFAELKEKIDRRSKG KLEDGPKFLKSGDAIIVDMVPGKPMCV ESFDVYPLGLCFAVRDRMRQTVAVGVIKA VDKKAAGAGKVTKSAQKAQKA
5628	13679	A	6440	2	174
					FFFIFFFFLNF*FSNFGSYKPVHCCVFF CCCCFFL/LVFFFVCCFFTSFSFLFF
5629	13680	A	6441	1	271
					PPRFPEFFYSGPPKPFKKTPVFLGVKPG VSSSSPYQKKPTNFGPKMGAL*RIPLFET PIWWFPIKGFHKKPPVLN*PPTRKPPP KI
5630	13681	A	6442	3	128
					FFNKKPPPPGRGWPFLVPATLRF*G*KIPP PPPPEVRFPG
5631	13682	A	6443	1	154
					LWV*EASKIPGGAEEAHPPITF
5632	13683	A	6444	2	230
					FFESGSRSRVTQAGVQ*HSLGSLQPLPPR FK*FSCLSLPSSWDYTHVPTR PANFCIFS GDGVSSCWPGWSRTPNLR
5633	13684	A	6445	70	550
					NQV1WEFSOPAGRHGPFAPSALPASSF LSSFCPSGKAETLESI*SSGKPGVGBGAT SLEPSIS*MFWEOPENG TQEPA GMPIHT PPCSNPAHSFGGTGAPGRREEALHCPP *HIPSHPPSRRPWLA PLSLRPPFTPMAVN DQDRSHVCFLGLI
5634	13685	A	6446	77	485
					NIYVYSSICFTWTFHFERKKFYVSHIVLY KVASPMIKCLYCHSGHTQVQYQLNGEA ARLGQGLLC*NVIIIFCILLSLSLFFSFG PMLKM*NFVFK*C FYNIRKPKFVFFVTL DFNSL.YIGTSNVTIVLNKFH
5635	13686	A	6447	3	349
					KVEDPSPVWRNSIFWKPVITFKVVFCLF VFLETESLSSVVAQGVQWHSLSLQPLPP GKQFSCSLSSLSS*D YRCTP PPRPADFCFIG RDGVSPYWSG*S*T PDLMLCPAWLPKV1
5636	13687	A	6448	1	189
					FF*IPHSVAQAGVRWCDLGSCLNLP GSSDPASASQVAGTTGVHYYTQLFKFF JEMRAP
5637	13688	A	6449	2	304
					LDTPLGAAPAAFFLPSLNQCLIYNPMPPR PLKAWRLLKTGILTPEPRVKGEALGAGMM PTGVSTASSPSYPLAPLGPLRPLQDCMH QALS*APLSDALCIAL

5638	13689	A	645	2281	2431	KLFFLKNVLLNFFPLLPSPVLCYCCF SFFFLYCLLFTVVVLGSARNK*KLFFLKN VLLLNFFPLLPSPVLCYCCFSFFFLYLC LFTTFTVVVLGSARNK
5639	13690	A	6450	21	359	SLLQPSPAFPSPAFPCGLL*PSVVPQSPAFS SLL*PSPAFSSL*PSLLWPSFSGLL*PSLT FSNL*SSLLPSTEETPAGORQEQLQLFPV GGAADAYFPFKCFKILSSECLK
5640	13691	A	6451	2	170	LSSLSS*DYR*APSQLANFSIFL*RWGLA VLPRLVSDSWPQMILLPPVPDVLELKA
5641	13692	A	6452	3	112	
5642	13693	A	6453	4041	4215	
5643	13694	A	6454	3	309	PPPPK*IL*RAPNPPPLSSSFNSNPPTWGPGP QPPPSKFSKFAFPFLPPPFKKEPPSSL FFPTKEGTIV*KNPPTFSGFQSPDSIK*GRV EPPGGTKRG
5644	13695	A	6455	2	439	RTSAREKRDLNRLKLGDSKNSDC*SV SSNTDADATQEKNNATSNRKSSGVKK NSKSRTLTRQSMSRIPASNSNSTSKLTHIN NSRVPKKLKKPAKPLLSKIKLRLRNICKRL EHKNASRKLEMGNULVLEPKVVLYNKL PHKKR
5645	13696	A	6456	1	146	
5646	13697	A	6457	59	431	PTAMAEEGIAAGGVMDVNTALQEVLK ALIHDLARGIREAAKALDKYYVQSQYC GFLQPEQNCNCHPREGMFVLAQKF*PM ASVLPT*EKVROAHLCVLASNCDEPMY VKLVEALCAEHQINLJKVDNNKLGEW VGLL*ILWVLATGTKLPPKGRRHGVHG SAKVLNGIRPTGNLKGAKPifVCLHPT VMSLCMSSWWRFVNLTKST
5647	13698	A	6458	242	431	
5648	13699	A	6459	65	473	PTAMAVEGIAAGGVMDVNTALQEVLK ALIHDLARGIREAAKALDKRQAHLCVL AFNCDEPMYVVLVEALCAEHQINLJKVD DNKKLGEWVGLCKIDREGPKRVVGC CVVVKDYGKESQAKDVIIEYFKCKC
5649	13700	A	646	203	371	HTDYIPNGPRTNEPTAHELIG*H**PSHFR T*VEQYNINADLKS*YQHSMDRMLSLG
5650	13701	A	6460	32	485	HLVLASLLACLASIFLPSVGLGOCSDLVGS QKTPPRNEGLPRKQOTFLSDLPLPSCLWPF YSPPLRAKTTIPLIQPKALPKPNLTLTF FLSV*NWAIGKLFGPLSGL*GQEGPPFOR ESCAI*GRKECCAKRPKRILTDRPRWVPH SYOH
5651	13702	A	6461	3	336	FFFDFIGSCFJA*AGVQWHDHGSLOPQOPP GLK*HDIPITAS*VAGTGAHHHA*LI* LSVKMGSSPLVAGWVSMKSWTQANPSL LQPQPSAWDYLCEPPCLVRNTFEYV
5652	13703	A	6462	2	280	VLIWWRVPGGSGKMKERESEKQJLPRPIG CIWERGKSPGEAPSALPMPWSNPPPGTC TPSCPTYRCTPLPR*TDAWSRHTHAPRN GETIFA
5653	13704	A	6463	1	171	MWGWEKIKINTFVYCWWEFLVQNF WSTTWQHILKF*MSFDALLGIYPKYILTN VT
5654	13705	A	6464	21	402	
5655	13706	A	6465	42	266	
5656	13707	A	6466	60	656	RRRLPLSVAIMIYRDLISHDEMFSDIYKI REJADGLCLEVEGKVMVSRTEGNINDSLLIG GNASAEGPGEGETESTVITGVDIVMNVID LOFTCFTKEAYKKYIKDYMKSIKGKLEE QRPERVKPFIWTGAAEQIKHILANFKNY QFFIGENMNPPDGMVALLYREDGVTPY MIFKFDGLEMEKCVSTRKWWVKKINNVKK TF

5657	13708	A	6467	176	552	MRSSKQMKPNFPRCSSITVLSVRGMVLF LTACPRFKMSRTDFRGNPQVT*GSTI CSIFRLPSILSMRITTK/DQGMFIWQFQGM RFHF*SSETHLVTFLPPGIM*E*FSQLKE PFSFLSCYCH
5658	13709	A	6468	98	507	RATEKWKGRKNHESLWSKCPLKJFFRRS LAMVLCLTSKLRLPSVLSMRITKARECLSG SSNA*GFTSSRLRHSLSRFCARNHVQMI PVA*T*ALFLSSAPSPLPKMPALPGWLCLG RPFSSFGDFLEPKGFFFALAPP
5659	13710	A	6469	204	401	WHEFTGAENHCKTLPKENF*WCLCKSH PSEPKNAAYNRITLCDLGISKSEVSLGTSE EMWTSGQE
5660	13711	A	647	12	355	LFSLLSGGMQSLSLGGTQGISEGLN*LTSM APGNLWHMRNNFLFGSRCRWMTFSAEN JFKSVSFRLLFGVKCHNTDSEPLKNEDLLK NLTTMGVDIDMARKRQPVGFIHMRTNE QD
5661	13712	A	6470	249	906	RJHFPRVSGPSQSNIKFAVASRGFFSLSLS SAQDPPLPPLGEAIALSLSHPVPRRSTET VAGDSSELQLGLRSPQOPLAGLAFLARL FLFPPP**RCKSKPN*NDRRRSSVDSQIHL VGRESAHPLAGLRVCVSLPLLARCFGQV LQGVPGWLWPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR-S THLGLPKCWDRYRREPPCAH
5662	13713	A	6471	401	659	LIDLRFYLFLYLR*GLRLVP*AGVHWCN LGLSLQSLPPGFKRFPSCSLSSWDYRHAP PHPAHCFISRDAVSPCWSG*SQTPDRL
5663	13714	A	6472	1271	1538	
5664	13715	A	6473	1	369	ACSSCFHAGLEHVVRVRSCHSGVAAAR RSEAPDLFC*PPSLPVPSTPSPSPAPAMN QATSDPTHTCPTRLPTCPNAAP*AGPTAD TPS*GIPDLPAVVLLKTPQHLDLPVCSLCG PPLOPTET
5665	13716	A	6474	3	340	ETRSYSVTQAGAEWHDHRSL*P*PPGLR *SSHFSLPSNWDYRCVPPHSANFLVIFVEI VFHHVVAQAGLELLGQSSDLPT*ASQSTGIGT GVNHCPAEKEVLPREKAMQRGGSQA
5666	13717	A	6475	21	273	GMNERGNITKEIKIIWEYYE*LGTSQLD TLD*TNSQKDTNYONQNLTKYRKYGLEPI TSDYISNFKRLPKKSPLGDTGFTGEFI
5667	13718	A	6476	2	3204	FGEPTSEQTGTAAKGTLIAQITAPVSWKP QDSSEOPQKEEKLCKNCPCMFAAEGIEKPT GEGLLDSPSKTMISIKERLALLKKSGEED WRNRLSRRQEGGKAPASSLHTQEAGRS LIKRRVTERESQOMTIEERKQOLITYREEA WKTTRGRGAANDSTQFTVAGRMYVKGL ASPTAITPVAASICGKTRGTIPVSKPLEDI EARPDQMQLESDLKLDRLETFRLRLLNNKV GGMHETVLTVGKSVKEVMKPDDDETAKFY
5668	13719	A	6477	250	5816	
5669	13720	A	6478	553	7399	NFNKKNKLNLSFLGFPRQRKVSSFQKEFSLED KEQLANHERGJDQAQLLVALPKVAELRQI FEPKKEFLEMKKERIARRLEGENDTQ PILLSQCTGLVTHRLEEDTPRYMRASDP ASPHIGRSNNEEEETSDSLESKQTRSKYCT ETSGVHGDSPYGSGTMDITHSLESKAERI ARYKAERRRQLAEKYGLTLDPHEADSEYL SRYTKSRKEPDAVEKRGGKSDQEEESSR DASSLYPGTETMGLRTCAGESKDYALH

5670	13721A	6479	380	999	AGAKGGGPGGRGMKKTNSLPLSAYR LLPVELSKGWGLGFSVCPAPGLMAKG VSPCDTAVKRDNII*VGGGV\$KCP*RSS *WSGPVPALTAFLVDNHIEVYLWQGW WPIENKITGSARIRWASDRKSAMETVLQ YCKGEAPSNNMPAARNRWGSPSGMRSE TPPPFCACQPASHIKAWQVVVDENPISPL KFPEVDIVKFLD
5671	13722A	648	1134	1633	PNPTGTLMILARKWCPDGLQLSLPPDV/LGS *GEHLLSCLCQEACSSNSRRPRQAWTG SOGSRVINFFFFFAVKGTCHOGPNHJQKAP KAPGTPPTPSYPGTPSRQLLWQWVQPRP ALPASSPCSRHQLVLRQAMSWLSSAP SVPLDFSGASPVWATLCPHPRLPHR
5672	13723A	6480	78	200	KKGSPFFFKVGGQQGNLGLLEPLPKLK KFCFCPKPKRKGDYSSSSSSPDSSSSKKK GVSPFWPGGV*TPEKEGGL
5673	13724A	6481	179	384	FNSYYMMVVVYVHICVFLVCICIVRYI YLCIAVITCLMNEW**FKCKGNDARGYE KKLPSKYIEIKE
5674	13725A	6482	76	205	RKKPPEPEKTCFDNITGNNTYPLCLSTYEHDSD *YYVNRT*LCAER
5675	13726A	6483	2	774	HSYSHSHGHCGSPAGDTEQGYKPVWPV CSLFPGDSHPGV*QPIHEPA/QGRGGLPP WGAA*TPRAWRLA*RPRG*AALPWA*T SPGRPASAPLAHTGSGCCPSRPTRAPGPS/ IPIQNIKRPYPPGEAFVPSRAGPVTGVTRS FHLAPSLLPPPS*SPSLPPRTTSTRAI LTPSS*QKLLYPPSRPVVLLVRRARPAA APTSEEPPERSPWETPHAAPSQLHELET HSVVAOKSDLLPAPEAM*PGSVSSRFLLY
5676	13727A	6484	2	732	GRRRPGPFPKPRAPQRDRDRCNF*PCPP GAKSSAACCCSDIRARAIAPLGNSPCSP LSAP*AP*NPLCRTVMGRSPMTLSSLGSR PTSLPAPFPWSPRFGE*PTHPRARSLLT WPMPTTP*QOATPWRKRA*PPATQASTP HSLRGSSSSSQPRLAPLRPTSSRACMAQP TTPAAGALGPVTLGVLTTPQAWASLRTP GRLLTSLSPRQPLQQRQWQQQQPQLQPO PRPLWQPCRRHTRI
5677	13728A	6485	2	338	CTTAIPTEEMTRLSRMNRQLOINVDC LTEVDLQSQRNFDPKAMNNFYDNIPG PDVPPKPSKKGPTDSEPKTSSGCSNIG LLSKCFPHACCSRQNPNCPICHQSTLAA
5678	13729A	6486	84	300	RVGARGKMTALASGQLGPLMCQFGLPA *AVEAANKGDVEAFAKAMQNISKPEQI* GDTDKDT*DKEDSL
5679	13730A	6487	91	668	SRAQVVLHVLRREWAGGRSPAPPSPW PVLHVPPDPQSWSQLSSVALGCSPOWSSAL AWLFLQLQALGMFSAALASGOLGPLMCQF GLPAAVEAEANKGGKVEAAPGTPRPEPG AGSIPVPLDLQKWW*GGKHGSPALDPI ALIPSFGARVRHHVSLTCSDVEAFAKA MQNNAKPEQKEGDTDKKDEEEDMSL D
5680	13731A	6488	1	414	LQPGPAGAQVVDLA/SVV*PPEIMAPLIA NADVQERLLPYLPSGE/SLPQTADE/INQT LTLAPSSQQALGMFSSAALASGOVGAFF MCQFGLPAAVEAEANKGDVEAFAKA MQNNAKPEQKEGDTDKKDEEEDMSL D
5681	13732A	6489	205	553	LSPRRHKKASTTGAQMQRGTRKSMRQE EKAILTLRGSREPTPRAPLQLVPSVPSWL FLSLHSIAOTPLPHTHSTHTPRSQPALPSQ APVVPVQPHPPHPE*ALSPDNLFSMILKSP

5682	13733	A	649	1	370	QRLAEMSNAIERKHATKMTYOPTNGL TSGYVADRRVKHISGGEFPQAQKQEP HPGTTSRQ*QTRVNLHSPLDPEMHEQTYF RGMYRKLGWKGAGPEGFYDIPRYVYTA YTAHTTRPADIRAM
5683	13734	A	6490	3	347	SFFPVLLRSLAVAQAQAEVQ*RNLGLSQLPPP PEFKRFCSFLPSGVWDYRRRPPRFANFLY F*+RGVSTMWGGWGSRTPDLRGLLAHL GSPKVLMGTGREPPCLGLNGLTFLPEIS
5684	13735	A	6491	280	406	FFVLLVETGFHRVSQDGQLDLTS*SARLS LPRCWDYRREPPH
5685	13736	A	6492	1665	1787	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5686	13737	A	6493	1431	1553	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5687	13738	A	6494	1740	1862	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5688	13739	A	6495	1173	1295	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5689	13740	A	6496	1027	1149	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5690	13741	A	6497	631	744	VIEHLVSQLGDLDFLTS*SARLGLPKCWD YRREPPRPRVH
5691	13742	A	6498	166	352	FFVFLVETGFHHVSQDGQLDLTS*STRL GLPKCWDYRHEPP
5692	13743	A	6499	2250	2372	FFVLLVETGFHRVSQDGQLDLTS*SAHL GLPKCWDYRHEPP
5693	13744	A	65	1586	1775	
5694	13745	A	650	1	222	
5695	13746	A	6500	150	368	EKELAFFPQGEMQGGGNLG*LKPPLR* RDFSCSLALPRGNGRGAAPPSTNFGLGG NOVYPSGPCCGFPETPDLK
5696	13747	B	6501	174	350	MDEKTKKAEEMALSLTRAVAGGDEQV AMKCAIWLAEQRVPLSVQLKPEVSPTQD IRFLM*
5697	13748	A	6502	1	498	EFRAPGPLGFRTRPARRVAGSGGPG*G TIFFAPPPSPAPLPGPPPLSLSLSPPKPLPLRR TGASREERGLCLERTRDARGAPASGGPPG LGTPLRGVGRASPRFRFPPPLVWPFPAPS ADLSRRPLPSHRPTQDPGLVIGQCDASRL PRGRQGTHRAWAAPEATRP
5698	13749	A	6503	919	1761	RAFSFNREEPTADEQGLPTSVAGRPAVIA AVPSWHARGTERRAPGRTD*HHPHHLG AQPSAALLPGLP*HGCHISAGGRREAGNI PGRKIIYPPPQOGFYGSNNNGOHAQYIKLSD A/RSLT*IQSSMTSCRVLR*GSPLPSAGS SPGLGMSCLTSGTSCGYMTSSWPAPTDA DLLCSDRCVVSRAGSPGL*L*HGLGPPV /SPRSRTPCPMRH*AEQETLFSPFHGPNL LGRPLPNSKLRLGRQPLLSKTLWSHQPSR GLIWC CGS/GFDFCGLKIEQKMS
5699	13750	A	6504	131	575	VFAALKPGTPGALPOVGVLRLDERPGWV VSGRPFPPASSHLGLVPPPPAKCGTLSRR PLPSHRPTQDPGLVTQQL*CFPTAAAGTAT AHTIGLGPZRKPFRPHPWLSCSWSPRLFGGD PEVSIPIPKKARSPPIGEWGTATPDGREDQE SRGNP
5700	13751	A	6505	2	291	HEPQLNSNNVALHGAVIPGPPFLGACIN LMNFMVALPIPEYKJARGVQKHTYKHN GSLTNTP*RGSDIEDIEPLLRDSTIWELSF EERPQNCPEL
5701	13752	A	6506	1	267	PRFKLFLCSSLSS*DYL*VPAITPG*FLY FF*VKTGFHHIVGOTGLELLTSGDPPTSAS QSAGITGMSHCTWPISFLYLWHTGGKK EC

5702	13753	A	6507		1	216	HHEWMGTRVGEWMDEWKEGWKMDGK VDK*MMNGWMEGCLYQWLNTIELCQELI PYTCLCLPSGWIVYIFQSQILD
5703	13754	A	6508		74	356	
5704	13755	A	6509		2	375	RHEVKPQWTPG*DTDHLPNLSVALQPTR QPGRRQRPEGTQVPSIAPPASQSPQQ SQPNPNSLLHPRTPTSLPIPASLIPASPKT QTL*PASEVGTVSNPWPWTRKLGPGEAN RLSLMV
5705	13756	A	651		3	556	LPTVEAAISFSLAIGKHSATVFSFWAGKP PSRILPHLGPILPQKASAWPLRPLVKPKF VIKRKPKKFIRHQSDRYVKIKRKNWRKPR GIDNRVRRRFKGQQLMPNIGYGSNKVTK HMLPSGFGRFLVHNHKEEQGLEVLLMCN KSYCAEIAHNVSNNRKAIVERA/AQLAJ RVTNPNARLRSEENE
5706	13757	A	6510		3	148	IERREVTIVIRRGGKHQLRLVFPTRWAGK GLL*GICFWFSFLSHHHWSVC
5707	13758	A	6511		50	255	LSMVSTVLVTTIMKLCSY**K*QIQSWLPC LTHTKTHTHTHTHTHTKVLHTLTCQ YYAIIGNVLSFY
5708	13759	A	6512		268	355	
5709	13760	A	6513		2	206	
5710	13761	A	6514		1	317	FFFFFFPLFRQCLTLSRPLESGTISAHCS LSQPQSSDPPTSALRVAETTGTRHHAWLI FV*VETGLIHHVVLAGLELMGSRNQPTS ASQSAGITGVNHRawlTW
5711	13762	A	6515		2	210	KEKJFSPGPKHPPPPP*KTPLKGKRIFPS PPRKNWPPQRIFKKAPPSSSSSSSSSSSSSA QI*SFNSP
5712	13763	A	6516		674	985	WWFFWLCHPGWSAVAWHDLSSLQPPP PRLM*FSCLSLSSNWDYRRAPPLASVF LVDTAFRHLGQAGLELLTSSDPPTLASQSO AGITGVSHRTQLRSSFDS
5713	13764	A	6517		2	336	
5714	13765	A	6518		3	260	CLGLLVIIFVCNFQSIRDYRRPLH*LIFVV FLVEMGFYVG*AGLELLTS*SARLLAS LRAGITGVSHRARPRRSFVPGFWQDHG
5715	13766	C	6519		38	478	
5716	13767	A	652		2	395	
5717	13768	C	6520		33	317	MILTNIHLHHWPFKNNXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXTRCPRTTFTFLRG*
5718	13769	A	6521		1	253	RRLFFFLLRWSFALVAQAREQWCNLLG*L QPPSPGFKQFFCFSSLNSWDYRAPSACPA NFVFLVEMGLYIKEWWDNDGRMICEAP
5719	13770	A	6522		2	411	GVLRLSSACQCACPSTSTGP*AALAGFT TTGSGLCWAWTPSSSFVGSSSREAPSGT ATISWTRNIVATSATTANRMAMCTSTR TARLLAPATNCSPRSKTLTIDPCSGGC RLJCKDNTPRLGTGQGRQQT
5720	13771	A	6523		2	222	THIGLPKC*DYKEPPVHRQFL*F*VETR FHHSQAGFKLTTSGDPPALASQSGRITG VTRTRQPLNGFYKM
5721	13772	A	6524		2	261	VVVVSQYAAERPSVVAHACNPSTLGGR GRWL*GQGVETSLASGYLPTLASPKCW DYRREPILRLACFNFFVETRNLLTVLPSV QO
5722	13773	C	6525		203	355	MVALSTRGQVHLSGAVVPSSFLIAPS GEQEVDIAMVAGYAVTSVLL*

5723	13774	A	6526	2	671	GVGGVGGRGMLPPAPPRAPIPGFPSTILW PSPLIPL*LPPIGLTGFGLPFGHGCPPLSLSQ PWLFPPWGGAQAQPPL*P*PRHPCPPIHPR QSYGRQLPTFWLAPPSCFLSLVFSSLSL SLSVRSRVLLP*HPPPHISFHPLGFLS*AS PISOGVGIKAFLPLRFQPFF*PLIPTPLSL PKMGALWGRL*HSTPAQAMGSRAPPSG LAQASTYLLQFGVVG
5724	13775	A	6527	3	477	AGKFPLRSGHFPFCFTVESVCSCPFPKPSV IPLSPCGASAPSPRFLSPSPGLVRAVLHC TLLAVS*APPASPVGVAFSPVPSIWHP RLPGSYGLCGQHHLRDPTKPRSRTHFRA VPLVVSCLSPSPNPLMTSGVQRPPKGLE NSLQLADLNK
5725	13776	A	6528	1	381	
5726	13777	A	6529	1	2654	MSFFFSTLKTALSKEKLAATGVVLVICAL VGAAGFAWERHQLKQAJEIKSLSLDOAVK ERDKSIMDLNOTIETMNKAEQHHSQEV KNESEQAKYADRQMERKAEVQKQLVA AGNVRORIPADTQRLLRESISEFNADAD KGIFMSDKVTVKQTINKATSYKIEQITV GKPGSEQYRRAFELADQJGLKHPDICIEH VPFTYADEQCITHVLTTEEDFFSTEEREGV DRCIGVICSSSVSDELFPNVPEYGGIYQF LYEGDELCKYEHDIESKAKELTVNSNNT VOPVALMRLGVFVKPKPSKSXGESKEIDA TKAFTSQLEIAKAEGYDDIKITGPRLDMDT DKFTWIGVIVYAFSKYGLSSNTIQLSQFQE AKACGFPSSKRLDAKLRLTIHESLGLRN KGIAFKRGKDAGGGYQTGQLKSWRADS KLWELFQLDYRVLLOHHALRALPKKEA AQAIYTPIESLPQNPLPLSFARIRERLALQ SAVGEQNRUIKKAIIEQLKTIGYLDCSIKK GRESFVIIHTYLIPAIAPPQHIIQCDPFLSHL DFYSPSTSRRCRASRSHQLIESTEWALPIE AGNHQNDSGYNLVNEIRVLYAWRMPK HVVTHAKDQLHKVAQRANRMLNVLT EQVQLQKDELHANEFYQVYAKAAALAKL PLUTRANVDYANIIDIEHHRGVPKYRDR YSERGVSKTVSTVSLAHAMRAHPHLM EDLRILVIDLDPQSSATMFLSHKHSIGIVN ATSAQAMLQNVSRREELLEFIVPSPVPG VDVMPASIDDAFIASDWRELCEHLPQGQ NIHAVLKENVIDKLKSDYDFILVDSGPQHL DAFLKNALASANILFTPLPPATVDFHSSL KYVARLPVELV/KLISDEGCECQLATNIEK QTNNWANP
5727	13778	A	653	1	1055	TDCRVPDRVRPRVRVREHSIVGTRLVSCQ LQPSPQNAODQGLLTMRJIAVCFCLLGIT CAUPVKQAESGSSEEKQLYNKYPDA/VA TWLNPDP/SQVRQNLGP/TGFPSKVQR KGHGHIGMIWDGWKVDDDP/VSQSDS IGLGTTLDDVDDTD/DSHQSDESHHSDES DELVPDFPTDLPATEVF/TPVPTDV/TYD GRGDSSVYVGLRSKSKKFRPDIQY/PDAT DEDITSHMSEELNGAYKAIPVAQDINA PSDWDSRGKDSYETSQLDDQSAETHSH KQSRLYKRKANDESNEHSDVIDSQELSK VSREFHSHEFHSHEDMLVVDPKSKEEKD HLKFRISHEDLSASSEVN
5728	13779	A	6530	1	945	

5729	13780	A	6531	146	4368	LGFLRLRSEMPRKQGDYRT/SDME RGR VEQRVGYTIEQINHMRDVF/GTRLRRRAED VPPVIGVAAHKGKVYKTSVSHLAQD LALKGLRVLLVEGNDPQGTASMYHG VPDLHHAEDTLLPFYLGEKDDVTYAIKP TCWPGLDIPSCLAHLHRIETELMGKFDEG KLPTDPHMLRLAIEVTVAHDYDVIVIDS PNLGIJGTNVCAADVLVPTPAELFDYT SALQFDMLRDLLKNVLDLKGFPDLDLAI LF
5730	13781	A	6532	820	2011	TTTLVRLPCRSPKRRIKALRSQLRGLPM MRVPSPFRLRVTPSTPMSKSLTWQVHLLV MILLVMFWTCNPSPVCTASYVAAAMCW QAPMAPAKPOPSRWKTSKARMYQSQK VAKISTLTVLSSLILITVPAAYFTRLMLL LPLMRVPSFRLRVTPSTPMSKSLTWQVH LVLMLLVMFWTCPSPVCTASYVAAAMC WWQAPMAPAKPQPSRWKTSKARMYQS EKVAITSLTVLSLLILITVPAAYFTRLM LLPLMRVPSFRLRVTPSTPMSKSLTWQV HLLVLMLLVMFWTCNPSPVCTASYVAA MCWWQAPMAPAKPOPSRWKTSKARM YQSEKVALTSITVLSSLILITVPAAYFT LMLLVSKSCTCSLNYNIQQIALFSK PDKGTEIAIERANGDVLDMQSVGVY LRRRYVLVASSDGTSKTATFKMEDFEG NVPIRKGRTNIYVSRIKSVVDNGSGSLLH SFTNAAGEQITVCSLNYNIQQIALSF APDKGTEIAIERATDDACTFIPVTRDQS YEVFNVAGSSFGSYAAGDVLDMQSVG YSQLRRRYVLVASSDGTSKTATFKMEDF EQONVPIPKGRKNIYVNRIKSVVDNGSG SLLHSFTNAATADACTFIPVTRDQS EVFNVAGSSFGSYAAGDVLDMQSVG SQLRRRYVLVASSDGTSKTATFKMEDF EQNVPIRKGRTNIYVNRIKSVVDNGSGS HSTNAAGEQITVCSLNYNIQQIALSF KAPDKGTEIAIERGSST
5731	13782	A	6533	1	3039	MNLVLTQVOLQKDELHANEFYQVYAK AALAKLPLLTRANVDYAVSEEMEKG FDKRPAGPSMKYAMSIQNIIIDYEHRG VYRDRYSEA YVIFISNLKGGVSKTVST LAHAMRAHPHLLMEDLRILVIDLDP ATMFLSHKHISIGVNATSQAQMLQNV REELLEEFIVPSVPGVDPMPASI ADDFAI ASDWK/ELCNEHILPLV KLISDEGCECQL ATNINGMSKLSNKADHKYCHSLAKE VFFGGDMLDVFLPRLDGFERCGES
5732	13783	A	6534	1	2607	
5733	13784	A	6535	1	4557	
5734	13785	A	6536	3	2847	ELHAYAMSQNIIDYEHRGVPKYRDRUL AHAMRAHPHLLMEDLRILVIDLDP ATMFLSHKHISIGVNATSQAQMLQNV REELLEEFIVPSVPGVDPMPASI ADDFAI DWR ELCNEHILPGQNIHA VLKENVIDK LKDSDYDFILVDSGPHLDAFLKN NALASANILF TPL PPATVDFHSSLKJV VARLHELVKLISN EGCECQLATTIGFM SKLSNKADHKYCHS LAKEVFGGDMLD VFLPRLDGFERCGES
5735	13786	A	6537	1	4236	
5736	13787	A	6538	65	316	
5737	13788	A	6539	54	265	

5738	13789	A	654	2	1103	PGRPTRPPTRPGGGRAQHRLYQTLQSAS CSLLSQPTTRGKLTTMRIAVICFCLLGHTC AIPFKQADSGSSEEKH[FVNKYPPDAVAT WLKP*PIFRRNQNLGPTEWLCLKEITNGL *TRRTLSKLRSNQKAMDHMDDDMG*WK VDGWTMWDSDQSDISNSUDSDDVDTD DHSQSDSHSDESDELVTGFSTDLPAT EVFTPVVTVDTYDGRGDSVVYGLRSKS KWPFRPDIKYPDATEDITHMESEELN GAYKAIPVAQDLNAPSDWDSRGDKSDYE TSQLDDQSAETHSHKQSRLYKRKANDES NEHSVIDSQELSJKVSREFFHSHEFHSHED MLVDPKSKEEDKHLKFISHELDASS EVN
5739	13790	A	6540	2034	2174	EMPGHARCYADQQRYRFLPGSEVLP/ASI NVAWRPVDNLNTCSSTRSPE
5740	13791	A	6541	33	285	
5741	13792	A	6542	1	2448	
5742	13793	A	6543	1	2979	
5743	13794	A	6544	1	3276	
5744	13795	A	6545	1	67	MTKCSHLCCNNYLFSWLRDNGILATGER RNVRKQEYISRGYFTLKEVTIDTSNGSRI SFTTRITGGQQWLMKRLDADVVRRTS IVMLAKAVTFSCITMSDFTFSGYELACFV TISGLSLRSAGHILSQCANCANLAATTSEYFH KPHRLITAETGSQSTVRAFREAVNKG ILSVEIVIGDURERRANLYRFTPSFLAFAQ QAKNALIESKLKISSAAATKVKAVALAKTL ALFNFLSTPPCQNNDTPSPCQDDVAIKNK KSQVKKTTRSRVSGGAGTTSLKKLJTSWIA KAKAKADNRLSKRKRTQKHEFKQVEA AARKYAYLKNKRSPDIGHHSNEDNLPHC MTVNEALNAVLAHKNDNEOWGAVAGA YIADITDGEDRARHFGLMSACFGVGSGV YMQTRYRGRKLVSQGFVQMILTPRDAD GIFTISTDSETVHYHGPKDLVTHLFYIFI TILHAVVQEYILDKISKRHLHSVKHKSK FNESGQLVVVFHTSTVIWCFYVVVTTPQA LTRVLNCCLALGSNAAVMGECGFAQLQ QTWASALADYAAAHKSMPPREPEILASCH QTLNCCLIESTRNSMDATNK/ADAGICRS RDERF*RCYASAFIPRDDPACSVGGSY R*CVITEF
5745	13796	A	6546	1	3435	
5746	13797	B	6547	9377	1600	MSDWSRVTGMKVIHASAVAAPN*TGRII ARNKGRRITPSETLISAATDSSIALLVAS MLLRVDSLSSIAISVPLSGALENDRAI
5747	13798	A	6548	3	127	LFPQCDSSQOH*CVCCRILTGHAA*V HOPCQAVQTYRASH
5748	13799	A	6549	2	323	
5749	13800	A	655	3	267	TINPKLLKNHARGTPEVPNQKHHWSPKQ KPLLTKNPKNNLPRW/PVPIPPPFEKPR KFP*TPKRRIP*TKIGPLPSNPGYPTKPPF
5750	13801	A	6550	2	94	
5751	13802	A	6551	171	632	
5752	13803	A	6552	3	325	
5753	13804	A	6553	2	171	

5754	13805	B	6554	104	1164	MCDEDETTALVCDNGSGLVKAGFAQDDAPRAFPFSIVGRPRHQGVVMGMGQKDSYVGDEAQSKRGLTLTKVPIEHGHTNWDDMEKIWHHTFYNELRVAPEEHTTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAQLSYASGRTTGIVLDSGDGVTHNVPYEGYALPHAIMRLLDLAGRDLTDYLMKILTERGYSFVITAEREIIVRDIKEKLCYVALDFENEMATGRHPSLWPKRATSQTOQVITIGNERFRCPETIFOPSPFIGMEVGHFTRRPPYNSIMKCDIDIOEQGPCMPTNVMFQGHPRLYPWEFADPHAKKRFTGAGTPTHEESKDKDSFAPRRSQKILG*
5755	13806	A	6555	1	308	LRPWCG/HHLRT*AQYHTLRAARLDPNFAIA'MEAKATDGGPPFE/VRGPFITVFSIPA NNRLHJHRTSEGGGRDLSDFISYLHVEATNP PVIQEY*PKKKKKKAQEDL
5756	13807	A	6556	2	589	AIRTAKEGEKFVMMQEESFRDGKALERFLQDYFDGNLKRYLKSEPIPESNDGPVKVVV AENFDIEVNNEKNKDVLIEFYAWPCGHIICK NLEPKYKELGEKLSKDPNIVIAKMDAT ANNIVHSPYEVRGPSPSHILLSKPNKKLNP KIKYEGGRELR*FLLAIIYQREATKPPPVIQ V*FIPKYRRRRHOEDLLKPVAQTPL
5757	13808	A	6557	1	129	
5758	13809	A	6558	23	115	
5759	13810	A	6559	1	1582	GRGWRAVLGWSSRRSGLEPATVGSSMA LLFLPLVHMHGVSRAEMGTADLGPPSSV TPTNVTIESYNNMNPVIVWEYQIMPQPV FTVEVKNYGVKNSEWIDACINISHHCVNI SDHVGDPSNSLWVRRVKARVGQKESAYA KSEEFAVCRDGKIGPPKLDIRKEEKQIMI DIFHPSVFVNGDEQEVYDPEETCYIRV YNVYVRMNGSEIYKILITQKEDDCDEIQ CQLAIIVSSLNSQYCVCSEAGVLHVWGV TEKSKEVCITINNSIKGSIWIPVVAALL FLVLSLVFCIFYIKKINPLKEKSILPKSLJS VVRSATLETKPESKVYSLITSYQPFSLER EVVCEEPLSPATVPGMHTEDNPNGKVIET EELSSITEVVITEENIPDVVPGSIHLPPIER ESSPLSSNQSEPGSIALNSYHSRNCSSES HSRNGFDTDSCLSHSSLSDSEPPNNK GEIKTEGQELITVKSPPPSFCYDKPHV V DLLV V D D S G K E S L V G Y R P T E D S Q R N F H E I S L S C T O L
5760	13811	B	656	197	404	EQQQLQQAQHLSHGHHGPPVPLPHPSGLQ PPGIPPLGGSAGLLALSSALSGQSHLAI DKKDHIIADEHHRX*
5761	13812	A	6560	69	523	PLGCASSQSISASRNLTCCTAACCCPQVL AHSKAAEYMTRWKVQZQMPHSQHDRAL QSFCAPFHS**LVALPTGHR*MTPAQFS ECFOATSGGS*D'PFLAPSFIAVPGLPVAP GLLPLGPVGHSRATMEEGQATHELTVF GLRPVGVRGS
5762	13813	A	6561	101	1469	RTHPTPHPGTGTGPTSAPPSSGALEGTAGTI TSNEWSSPTSPBGSTASGCSQALDKPIDN DGEVWSPDIEQSPEQALAIYPPCGRKKI ILSDEGEMYGRNELIARYIKLRTGKTRTR KQVSSHQVLAARKAREIQOAKLKDKQAAK DKALQSAAMMAQSISATAFHSSMRLA RGPGRPAVSGFWQALPGQAEHTSHDV PFSQQTAVQOPPLPLGFESPAGPAPSPS APPAPPWQGRISVASSKLWMLFESALE QQQUDPTYNKHLFVHIGQSSPSYLRPYL EAVDIRQIYDKPPEKGGKLKDLFERGIPS NAFFLVKFWDALNTNIEDEGSSFYGVSS QYESPENMITCSTKVCSFGKQVVEKWT EARYENGHYSYRHRSPLCEYMINFIHK LKHLPKEYMMNSVLENFTILQVVTNRDT

					QETLLCIAYVFEVSASEHGAQHHIYRLV KE
5763	13814	A	6562	1	1290
5764	13815	A	6563	604	1047 SNNRTDNPTSVAYLSKETDVAKGWPH CLWWVVAVAILVLEAIKIIQQGKDFTVWT SHDVNGILGAKGNWSLSDKRLLRYQAL LLEGPVLQIHTCVALNPAPFLPEDGEPIKH DYQIVAQTYVT*EDLLEVPLANPDNL YTNGGSFV
5765	13816	A	6564	1	1410
5766	13817	A	6565	510	755
5767	13818	A	6566	59	411 SWPSDKQTLVVQRGQKMEQANHPDPTD HMSQLMWIT/VLFQGFRDSPHLFGQALA QDLGHMFSSPGTLVLYQVDDLLATSSA SCQQATLALLNFLANQGYK/LSRSKAQL CLOQVKYLCL
5768	13819	A	6567	1	565
5769	13820	A	6568	126	492 CNNSMTSLQVRLKVCPRPCRTSM/LPIRII *KLPQVCLDLL*IREGEWDMYPCWAKFP CPYSLKGT*IAWGILWSFGDFFAV/IDPLM QQQKH*FSSQNTRNEEGQI*WPLLMHS QKPAPLPV
5770	13821	A	6569	1	342
5771	13822	A	657	2	651 LSRVLEEEFQFLQAQYHSLKLECEILAS EKTEMRHRHVVMYEMSYGLNIEMHKQ TEIAKRLNTICAQVIPFLSQEHQQVAQA VERAIQVTMAELNAIGVRGLPGLPTQ QLQAHLSHGHPVPLTPYPSGLQPQ JPLPLGGISAGLLALTSA LDGQSHLAJKDD KKHHDA*HHRGDRPGKPD*DFVLLILLQC CKVCIACEPSPNLYREOT
5772	13823	A	6570	55	219 LGNKHLLGSIDPRGSWVITGEYIFLRPPIA A*GRQ*DFLPPPELWWWTSLNNSWAFS
5773	13824	A	6571	339	1371 ASHPLRGLLCGPSLNEPCPCPLLHGQTQSHR PLKG*GVRASHSTGLAGSSTCRPLRDPLG EASWAPESAQGL*HQSALCI*LKLKPAG QRAKLGDRLDIPDRRKSTTILGRAGDLO PAMPEPTTLSVGSCAAQASPMNPAPCST APSPIDHSRAEECGRIARDWQAAPPAGP CGIHWWKPAGLLSSLRDCKYTNRHVSSS SRFANTINQHPASSGFVNAPIDTLYLANL VGTWRITVASSGIVNAPISTLSKQTWTW YQSAGCGKESTQASGAQTGGTSFKSLET TGSISEASSAKHTELFSRFTTFNPDVSVP DGVVGDTAGTVWPGLVKGEPCHLGTCY RCVLDPHPTPSESDTITQGIEHVQVCMSTL HDADVCNDTPVTHNTKKYIYSTEIFTS NNPELRSEDETVEFRALEKWKTSEQTIGE MDFYICNDPHPD SALYQNGLSKMQD'TV SLSVFSPSVAA
5774	13825	A	6572	749	1002 QLKKGTNSLLVSKFSPVWIPTGTLTQIMG TGVANIC*PVF*KD*GELGKMNYYAMMS TTTQGKEENPAFLKWLWEALRKYTPLSP
5775	13826	A	6573	1	1632
5776	13827	A	6574	307	543

5777	13828	A	6575	1	1149
5778	13829	A	6576	119	409 GIDICHHHLGLTPVGSHSLLCSR*QVA*VG AVTAATIGTGTGILLQQLAFLVCNWLLSG SSENFPRSLALCFCSEEREKGTCIQVGPNSP PPTACKGHN
5779	13830	A	6577	1	2433
5780	13831	B	6578	97	1065 MAHAVHTSLLVERTILTITKERGSTLQYPL RPGAHKGQLQDIVKRPKAQALRKCSSPC NTPILGQPKPNQWRLVQDRLRLINEAVI PLYPVPNPVNLLSQPEEAEWFTVLSDLK DAFFCIPLHSDSQFLFAFEDPTDHTSQLT WTVLVPPGRDSDPLFLFGQALAQDGLGHFSS PGTLVLOYVDDLLLATSSSEASCQQAATLD LLNFLANQGYKTHSRDSDAPVGFIDRHL VATERIPRGREPLSSLAYTTRGRPTRTGA RRTIVSIRIRDRFFYRYLAQREPPLYQQ SLLHLQLDSQPALSVVIGKVPNVVELTP NGFTAAQV*
5781	13832	A	6579	1	2403
5782	13833	A	658	455	1033 GLYFGKVGEVIEQVKAFDELKALIAFFPL SSLSFLAPFVCLLNLLFCFLRPLLSCLFSP GCRLHRHHCHHYLLLFLSHHHHHHQ QQQLQAAQHLSHGHHGPVPLTPHPSGLQP PGIPPLGGSAGLLASSALSGOSHSLAIKD DKKHDHAEHHRGERPGKPD*DFVLILLQ CKVVVCIAKESPPLYREOTMR
5783	13834	A	6580	1	2838
5784	13835	A	6581	1908	4698 SNDRTEDDCGKHPFMSSPPTEPWVCLII EQQEIDFLLDTGTTFSVLIPCLGRLLSSRV TIQGILGQPVTRYFSHLLSCNWETLFLSH AFLVMPMESPTPLLLGRDILAKAGAIISMKT GNKLPICCPPLLEGINPEVWALEGQFGR KNAHPLQIRLKDPISFPYQRQYPLRPEAH KGLQDIVKHLKAQDOSVRKCSSCPNTIL GVOKLNSQWRLVQDVLRLINEAVIPYV VRNPYTLSSQVPEEAEWFTVLDLK
5785	13836	A	6582	1529	2945
5786	13837	A	6583	3	154
5787	13838	A	6584	3	425
5788	13839	A	6585	3	223
5789	13840	A	6586	3	330
5790	13841	A	6587	50	1740 RSPHICCLTAHTMASAARLTMMWEV CPLICLDPFVEPVSIECGHSPQCFCISVGK GGGSVCAVCRQRFLLKNLRPNRQLANM VNNLKEISQEAREGTQGGERCAVHGERLH LFCEKDQKALCWVCAQSRSKHRDHAMV PLEEAAQEYQVRPKRHLEKLQVALGELR RKQELAEKLEVIAJKRADWKTKTETQK SRIHAEVFVQQKNFLVEEEQRQLQELEKD EREQLRILGEKEAKLAQQSQALQELISEL DRRCHSALLELOEVIVIYLERSESWNLK LDTISPRLSVCHVPGLKMMRLTCAVHIT LDPDTANPWLJLSEDRRQVRLGDTQOQSP GNEERFDSDYPMVLGAQHIFHSKGKYWEV DVTGKEAWDLGVCRDSVRRKGHFLSS KSGFWITWLWNKQYEAGTYPQITPSHL QVLPQCQVGHPLDYEAQGMVSFYNTIDHGS LIVSFSECAFITGPLRPFSPGINDGKNT APSNPLVPLNIGSQGSTDYWMAFSGTLP LSPHWAPASSATKPWPFLPHGITLEPPLSS AEASRDPQQASFSREVTSPINIPAPDGVV
5791	13842	A	6588	2	472
5792	13843	A	6589	1	239 QCCSGGTHGNPAIGDRMQKQILPWAPA QMKitRfMAPPERKYSVWIAAPILASLSTS SRMwISKQYEDESQPSIVHRKCF
5793	13844	C	659	178	360 MERPERKIDXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

					YYSFKNLI*
5794	13845	A	6590	1	834
5795	13846	A	6591	1	702
5796	13847	A	6592	1	1623
5797	13848	A	6593	1	1132 MEEEIAALVIDNGSGMCKAGFAGDDAP RAVFPSIVGRPRHQQGVMVGMGQKDSYY GDEAQSKRGITLKYPIEHGIVTNWDDM EKIWHTHTFYNELRVAPEEHPLLTEAP NPKANREKMTQIMFETFNTPAMVYVAIQ AVLSLYASGRTTGIVMDSGDGVTHTVPI YEGYALPHAILRDLAAGRDLTDYLMKI LTERGYSFTTAEREIVRDIKEKLKYVALD FEQEMATAASSSSLEKSYLEPDQGVITIG NERFRCPPEALFOPSFLGMESCGIHETTFN SIMKCDVDIRKDLYANTVLSGGITMYPG IADKMQKEITALGPSTMKIIAPPERKY SVWGGSILASLSTFQQQMWSKQEVYDES GPSIVHRKCF
5798	13849	B	6594	635	646 MCDDEDFTTALVCDNGSGLVKAGFAGDD APRAVFPSSIVGRPRHQQGVMVGMGQKDS YVGDEAQSKRGITLKYPIEHGIVTNWDD MEKIWHHTFYNELRVAPEEHPLLTEAP LNPKANREKMTQIMFETFNTPAMVYVAI QAVLSLYASGRTTGIVLDSDGDGVTHNVP YEGYALPHAIMRIJDLAGRDTJDYLMKI LTERGYSFTTAEREIVRDIKEKLKYVALD DFENEMATAASSSSLEKSYLEPDQGVITIG HRQRALPLPGDPSPF1GMEVGGHFTRPPY NSIMKCDIDIQECPMPPTFMSSGGTHDV WESLTACRKEITRAGTPAPMEDQDSFAP AGAQNTRVWIGSILASLSTFQQQMWSKQEVYDES QEYDEAGPSIVQPQMLLDTLHQARDFS QTILLNNGGG*
5799	13850	A	6595	1	1284 MGDTPROFGGARPRSGGALRGCRSRGG GNRRGLCLSRALANGDRRLTMDDDLAA LVDNGSGMCKAGFAGDDAPRAVFPSS VGRPRHQQGVMVGMGQKDSYYGDKAQ SKRGITLKYPIEHGIVTNWDDMEEHWL HTFSEHLVAPEEHPLLTLTEASLPKAN HEKVNQIMFETFNTPAMVYVAIQALLSLY ASGRTTGIVMDSGDGVTHTVPIYGGIYA LPHTILHLDLAGPDLTDHLMKILTERGYS FTTAKREIVHDIEENLCYVALIDFEQEM AMVASNPILLEKS*ELPDQGVITIGNERF RCPEALFQPSFLGMESCGUHETTFNNSIM KICDWDIRKDLYANTVLSGRTPCTLGLIA DRMQUEITALAPSTMKMKIIAPPERKYS VWGGSILASLSTFVQIQWISKQEVYDESCP SVIHRKCF
5800	13851	A	6596	1	370 IHTHTHTHTHTIFFLKRSFALVAQARVQ WRDLCSSLKPPPFKQFSCLSLPLSS*DVR CPPCPANF/SFFFVFLVETGFHHVVGQAG LKLTTSSDPTLASQNAGVTGMSHCAWP QSNKYYQNINFTMIQEQQQQKE
5801	13852	A	6597	2408	2810 IHTHTHTHTHTIFFLKRSFALVAQARVQ WRDLCSSLKPPPFKQFSCLSLPLSS*DVR CPPCPANF/SFFFVFLVETGFHHVVGQAG LKLTTSSDPTLASQNAGVTGMSHCAWP QSNKYYQNINFTMIQEQQQQKE
5802	13853	A	66	275	577 GGWITRSGVQDQSQQHSVDSI/LKKYK KLTKYGGVLL*SQL/SRLRQDNHMNP GRSCS*PRQHHCTPAWTVTRDSISKKKK KKNNKKKEKKGKKALLEP
5803	13854	A	660	365	800 INVNFLEYMTDITCFLFSYLTMSPIYL DVLLSLLSLFLFHIAGMHILITFINHDI*VV HSFYLRI*HAMEITVYEFICLRLRYYPFKAS KIFSMYNATVLFH*CDR*LGS*GILERL

					VGVC SVM CIV IYI RYVISSV DAP
5804	13855	A	6600	111	426 RIYKDRA GSPAHSCQH RDPLRTSPRGPH SLPWGQA AQSDAETEATHMGAPSCLGP AQPLPEPGRGSHTSVDSRHD SVEGFR DSRQTE SPWN DEN *NLLDYGSL
5805	13856	A	6601	1	2219
5806	13857	A	6602	1	221
5807	13858	A	6603	2	217
5808	13859	A	6604	101	456
5809	13860	A	6605	62	558
5810	13861	A	6606	2	178
5811	13862	A	6607	1	194
5812	13863	A	6608	59	132
5813	13864	A	6609	3	104
5814	13865	A	6611	2	58
5815	13866	A	6610	2	620 GFRPGDPRV RETGV LKPGML VTFAPVN VTGGVK SVEM HHEALSEAL PGD NVGFN VKNV SVKD VRGNV AGD SKND PPM EA AGFTA QVII LNHPG QISAGY APV LDCH TA HIACKFAEL KEKID RRS GKKL EDGP KFL KSGDA AIV DMVP ARPM CVES FSD YPPL GRA VRD MRM QIV AVG VIK AGD KKAAG AGKV TKS A QKA QKAK
5816	13867	A	6611	293	384
5817	13868	A	6612	39	543 QVAMGNLSGLRLAAGSCFRLCERDVSS QR LT RSD DWKG VNG FCVTKPTGK VP GAP IPALT NR VPF NTK PTD WQK KRP L WSRS PSKME DEIP O QSL SP LED ALNA CORT KMP SER SSS SQWIC PDGG MD CI FMVIEGQK AA QRH DFT QA *TLEKKAR LERG KOL
5818	13869	A	6613	1	194
5819	13870	A	6614	71	1145 NLREPT NSR TLT VGATAGS JTM KRL VC VLL VCSA VAQL HKDP TL DHWH LWK KT YGQ YKE KNEEA VR RLW EKNL KFV MILN LEHSM GMHSYD LG MNHL GD MTS EE VM SLM SSL RVPS QW QRN TY KS NP NR ILPD SV D WRE KGCV TEVKY QGSC GACW AFSAV GALEA QLKL KT GLVLSA QN LV DCST E KV GNK GCG NGF MTTA FOYI IDNK GIDS DAS PYKA MDLK COYD SKY RAAT CSKY TEL PY GR * DV LKEA VANK GP V SV VV D ARQ PSFL PLQ ESG VV Y DPSI CT QN V NHG VL VGY GD LNG K EY WL V *NSW GP WNG EEGY I/L WAR NK GHQ GJ ASF PSY PEI
5820	13871	A	6615	2	289
5821	13872	A	6616	2	125
5822	13873	A	6617	9	106
5823	13874	A	6618	2	505
5824	13875	A	6619	1	104
5825	13876	A	662	218	342
5826	13877	A	6620	1	109
5827	13878	B	6621	99	285 MPRKIEEIKDFPLTARRKDAKSVKIKKN KDNVFKVRC SR YLY TLV ITDKEA EKL KQSLPXX *
5828	13879	A	6622	239	449 NCGN QTS LR HRP T KR MPN SC QD PRK IR TLV FK VRC SR YLY TLV ITDKEA EKL KQSLPGLAV KELK
5829	13880	A	6623	1	104
5830	13881	A	6624	1	109
5831	13882	B	6625	99	285 MPRKIEEIKDFPLTARRKDAKSVKIKKN KDNVFKVRC SR YLY TLV ITDKEA EKL

					KQLPXX*
5832	13883	A	6626	239	449 NCGNQRTSLRHRPTKRMPSNCQDPRKIR TLVKFKVRCRSRYLYTLVITDKEKAELKLK QSLPPGLAVKELK
5833	13884	A	6627	2	129 YGPTHASGAMLRSCAARLRTLGAICLPP VGRRLPMEASRDPS
5834	13885	A	6628	1	289
5835	13886	A	6629	6	418 RRLMRDFKRLQEDPPVGVGAPSENNIM QWNAVIFGNTFKLVIEPPEEYPNKPPTVRF LSKMFHPNVYADGSICLIDLQNRWSPTY DVSPILTSIQSLLDEPNPNSPANQAAQL YQENKREYEKRVSIAVEQSWNDS
5836	13887	A	663	527	665
5837	13888	A	6630	3	330 ARRRLMRDFKRLQEDPPVGVGAPSEN NIMOWNAVIFGYADGSICLIDLQNRWSPTY TYDVSILTSIQSLLDEPNPNSPANQAAQL YQENKREYEKRVSIAVEQSWNDS
5838	13889	A	6631	51	418
5839	13890	A	6632	3	141
5840	13891	A	6633	1	581 HSDSAAAPGGGAARDFFFFQTDRRGSC GACSTPARRULMRDFKRLQEDPPVGVS GAPSENNIMQWNAVIFGNGTTPEDGUT F*LVIESEEFYPNKPPPTVRFVIFPKMFPSP NVYA*WVGICLDIVLQNWRWESQHMDVS FLSLTFSNSVGWDENPNP*QSSPIAQAAQL YQENKREYEKRVSIAVEQSWNDS
5841	13892	A	6634	2	266 YCGPL*SVWVARNPFGFAFVEFEDPRDA AGVV*ELDGRTLCCGMPSWGHGP*DNYC RRGFLPPRRRPPRRRNLSCSRSLSYSPWT LSL
5842	13893	A	6635	3	164
5843	13894	A	6636	1	947 IFLVFITEHMRDSCPLDCKVYVGNLGN NGNKTELERAFGYYGPLRSVWVARNPFP GFAFVEFEDPRDAA**YLCLPRLTCGC RVRELNSGEKRSRNRGPPSWGRPRD DYRFPSMLFLSLLSNLNQJGSSHLDRPHI PGQSAOLFYQMSQSQLOQQPSANKKAG KIHNTFANQLNPTATSGQNLFRQILPGP SVRAGLTFTISSLKPKTNLQEGEASLAA GAGFPLEIGEERDRCLGREITSRPDPSLGL VVDLGQMKGNRQRQFAREVVYRKLLHLT GVCTENFKFCRLHKGAFRLCFSCSNL FVS
5844	13895	A	6637	1	282
5845	13896	A	6638	116	561 PLDLEMHRDSCPLDCKVYVGNLGNNG NKTELERAFGYYGPLRSVWVARNPFP LFVFEFEDPRMOLDAVPRS*DGGKNTNV ACPCKEWELVRMGKEARSNRGPPPSL/WGRPRPDGFIRREGVPPTLFGRSPRKGG RFLFAARSRSLS
5846	13897	A	6639	126	376 VLALARQANGANTVELSAEWTFPSGYV GSVLPOGHREPNALCISFSKFRVLGSAP FLNRRRTASCNVRYCRLAATWRAVLPL
5847	13898	A	664	1233	1706 CLFWLLYYPGLQLPFHILLPHSLGSGQQ SSESAAATPSLAEGREEAFCRGCPAGLA RQAWRPHARLPGPAAPLAAPSALPLPTG RSGRWLPMICAACSC*SPSPAMSVYQRR, LGQGGAEDSEGGPVSRGCRAPGPQRLA APEEQTAARTQAICLIW
5848	13899	A	6640	464	781 AFAFKDRQLGQSSKKRMMSSRASSAAK CRAVPRPLLRSRRRPPVPMPPGPWVSSTK LGSRGRHQASCGR*SQRAR*SGLTGP HTMPENKRVRSTGLKFLPAQQS
5849	13900	A	6641	201	318 EINLTNFICPSSRSRSDVS*RESPFSRELHRIS SISLEPG

5850	13901	A	6642	1	1714	
5851	13902	A	6643	1	789	
5852	13903	A	6644	1	293	SPMEMESHPTITQAGVQWHNHSLLQPEIPLG KQSSHSLSPSSWDHR*EPLWPWKNIKFM LIL*IGFSHVIGNNGNTLYQSINNVEGPLK RSQKDRCGN
5853	13904	A	6645	1	252	
5854	13905	A	6646	1	1974	
5855	13906	A	6647	3	320	
5856	13907	C	6648	238	324	MADLPPIFLVEFSCHIYFNGSFMFPSQKK*
5857	13908	A	6649	1	1088	
5858	13909	A	665	598	1159	CRQTGVKIVYDWWFWLLYYPGLQLPFHL LPHSLGSGQQSSEESAAATPSI.AEGRREAA FRCGPAGLARQAWRPHARLPGPAAPLA APSLAPLPTGRSGRWLPMLCACSC*SPSP AMSVYPORRRLGGQGAEDSEGGVSERGC RAPGPQRPLAAPGEOTAARTQASVYLLL PHSPPLLSALHIIHILLPPS
5859	13910	A	6650	1	368	
5860	13911	A	6651	3	243	
5861	13912	A	6652	24	288	
5862	13913	A	6653	2	272	
5863	13914	A	6654	965	2737	AASPGLVLUCPQARTYI0SLPPALDVQLTP LPTTGFPAAIDLLGRMLVLUDSDORVSA EALAHAYSFQYHDPDEDEPEAEPGPGGCR HKLTLSLHLLELTYQEVLWSWDEAAGRRS PPPALPPRLRPSPGSGPPAAAASGFRRW AAPGFMSSPPPAPRSFGYRQEVTKTAW VRAGACAGCOPAPLISGPGRSSAVIDGRTG AKVAIKKLRYRFQSELFANPARVLCCLIN PMWPPQVIGHAEAGSV*QRSGPSHSSYL VMPFMGTDLGKLMKHEKLGALRGCAE ACHHAWEGGAQWPPFLCPHRSLOVPE*N PPQFFPQILDFFGLARQADSEMTGYVV RWSHPVPLPTELTRASISVDIWSVGJIMA EMITGKTLCSCTGGGSGGPDPWPSVC DLGADLDQLKEIMVKVADLGLGVGPSPFL PTQAKNYNMKGLEPEWSVGPVVWPDAPS PAAVNLLEKMLVLDAEQRVTAGEALAH PYFESLHDTEDEPQVQKATTGDGPLSPD HASPGHPGLGDVIAISSGATLICGMAAV HTGPKVWAHRWPEDWGVAFALQTPRPP RLSQVFLRPGRVGLGAALDPDPGWGA GRDL
5864	13915	A	6655	3	229	
5865	13916	A	6656	27	142	
5866	13917	A	6657	3	308	
5867	13918	A	6658	192	310	
5868	13919	A	6659	88	1506	ACGRGFGPEGPEGGRGRHVRAARGPVG PRAEGEPCAAWVGVPGSAPGTSLREG PGAGAPORPAGGRASGRAARSRPeara EGAPSPVVVGAPPAGSAGWAAPGPAMSS PPPARSGFYRQEVTKTAWEVRAVYRDL QPVSGAYGAVCASAVDGRGTAKVAIKK LYRPQSELFAKRAYRELRLKJMRHEN VIGLLDVFTPDETLDIDTDFYLVMPFMG TDLGKLMKHEKLGEDRJQFLVYQMLKG LRYTHAAGIHRDLCGPNLAVNEDCELEK LDEGLARQADSEMTGYVTVTRWYRAPEV ILNWWMRYTQTVTDIWSVGCIMAEMITGKT LFKGSDHLDQLKEIMVKVTGTPPAEFVQR LQSDEAKNNMKGLPELEKKDFASILTNA SPLAVNLLEKMLVLDAEQRVTAGEALA HPYFESLHDTEDEPQVQKYDDSFDDVDR TLDEWKVRVTYKEVLSFKPPRQLGARVS KETPL

5869	13920	A	666	358	644	RRSLALSPSPECSDVISAHCKLCLPGFTPF SCLSLSSWDYRCPPRLANFFFFVLFVET GIFHRVSQDGLDLTS*SARSLPLKCWDY RCEPPRA
5870	13921	A	6660	71	921	
5871	13922	A	6661	2	310	
5872	13923	A	6662	5517	5831	
5873	13924	A	6663	1	625	CKFIRVMAMHTRLRLPLRRKKAAHLMIEQ VNEGTVAEKLDWAKERLEQQVPVNQVP GDQDEMIDVIGVTKGKGYKGVTCSRWHKT KLPRKTHRLRKVACVKGKLIKNNAST DYDLSDKSINPLGGFVHYGEVTNDFVML KGCVGFTKRVTLTRKSSLVQTKRRAL EKIDLKFIDITSKFGHGRPQTMEEEKKA MGPLKKDKDRIAKEEGA
5874	13925	A	6664	1	1261	MSHRKFSAPRHGSILGPLRKRSSRRHGRK VKSFPKDDPSKPVHLTAFLGYKAGMTI VREVDRGSGSKVNKEVVVEAUTIVETPPM VVGIVGIVYEVTPRLRTFKTVFAEHISDE CRRFRYKWIJKSKKKAAFTKCYCKKKWQD EDGKAKQLEKDFSSMKYCOVIRVIATHQ MRLLPLRNQNKAHLM*IQVNNGHCGRPS WDWPREGLKKQGTVDPSVLGRNMKMD VIGVTQGPKGYKGKGGHPVVWHTQESCPR KD/HIPRACRKGGHVGLGAWHIAUAVAF SVARAG\QKGVYHHRTEITKKD/YKJPG LSPFLRTAKVGTIASTDYDLF*QEAESTP PGGFVHYGEVNTDFVMLKJGCVVGTKK RVLTLRKSSLVQTKRRALEKIDLKFIDIT SKFGHGRFQTMEEKKAFCMGPLKKDKDRI KEEGA
5875	13926	A	6665	1	168	
5876	13927	A	6666	3	203	
5877	13928	A	6667	3	523	LOFFRRSEVKMKNHLLFWGVLAFFKA VHVKAQEDERIVLVDNKCKCARITSRIIR SSEDPNEDIVERNIRNIVPLNNRENISDPT SPLRTRFVYHLSLDLCKKCDPTEVELD NOQVATATQSNCIGWMTPQSTCYLTSTG NKCYTAVVPLVYGETKMVETALTPDA CYPD
5878	13929	A	6668	3	276	
5879	13930	A	6669	2	152	
5880	13931	A	667	55	288	PFKKGGFFGNLNLPTTFGKLGKNNKFLNL FPGGPPPLPHGGLKKGPGAPQVPPFLKK PQTSPP*GLREGPPPLKKFYLF
5881	13932	A	6670	1	936	
5882	13933	A	6671	1	1023	
5883	13934	A	6672	106	125	KYLECQLKHGKSS*HSILQANFFASEND RAKMK*KPCFYKCF*AITFLREDWDYRR EPLRLAYPVYFLTCIKIRIMYTHLKDYTG H
5884	13935	A	6673	3	155	
5885	13936	A	6674	3	266	
5886	13937	A	6675	5	160	RDLGSLOPPPFGK*FSCLRLPSPQVQRC CVPSPWLLEQMITAWGASIHNR
5887	13938	A	6676	1586	2220	
5888	13939	A	6677	3	441	
5889	13940	A	6678	1	91	
5890	13941	A	6679	2	226	
5891	13942	A	668	2	385	ARGEPTMELSHADTTNVKAAWGWWGA HAGE*GADVLVRMVLCLPIIWTYFPYFDD LSHGCAQVNNGHGKVKADALTNAVVHV DDMPNSLIGLSELHAAH*LLVDPVNFKLL NHCLLGLTDHLLDEFPIAV
5892	13943	A	6680	3	187	
5893	13944	A	6681	2	209	

5894	13945	A	6682	2	702	FVSVPVSLLGLQFWRSERD/TARLQSAR WVERGRKLLELLSRQRPRRREEVVVGR EVCRTMEVRASLQKIVSNGDEQLEKA MEEILRDFEKRPSLLVDQCQSSIEISDHSF GDPASQTNKPSLQLLDPNSNTIEISTRPRSS PGGLFEEDSVLFNLKTLVLCMVSPRPN EVEALRAMATMKSSQYPPVILVVPN VPEGSVRHILSLLGGGEDVIASSGVELTV NSHCRHAE
5895	13946	A	6683	3	497	
5896	13947	A	6684	1	224	
5897	13948	A	6685	1	789	
5898	13949	A	6686	1	7500	
5899	13950	A	6687	1	8175	
5900	13951	A	6688	3	598	QCGGIRAITTMAMSFEWPWQ(YRFPFFFT LQPNDTTRQKQLAACWCSLVLSPFCRLH QSSMTVMEAQESPLFNNVNLORELPVE SIQIVLEELRKKGNLWLDKSKSSFLIMW RREEWGKLJYQWVSRSGQNNSVFVLYE LTNGEDTEDEEFHGLIEKPLLRLAQCP YSREHKAEIIHCSGDGRGVQVLLGRDLS PFTS
5901	13952	A	6689	2	356	
5902	13953	A	669	787	896	LLYNHYCOEKKRERKD*PGQHGETPSL QKIQLAG
5903	13954	A	6690	2	123	
5904	13955	A	6691	161	464	
5905	13956	A	6692	3	86	
5906	13957	A	6693	3	85	
5907	13958	A	6694	2	201	
5908	13959	A	6695	1	119	
5909	13960	A	6696	1	3414	MEPNDSTSTAVEEPDSLEVLTLDQS RTFIVGAQMNVKEFKEHIRASVSIPEKQ RLIYQGRVLQDDKQLQEYNVGKVHL VERAPPQTHLPSGASSGTGSASATHGGG SPPGTRGPAGSHDRNANSYVMVGTFN LPSDGSADVHINMEQAPISEPRVRLV MAOHMIRDJQTLLSRMETLPYLQCRGGP QPOHQSPPPPQPAVTPEPVALLSQTSEPV ESEAPPREPMEAEEVVEERAAPAQNPELTG PA
5910	13961	A	6697	1	441	
5911	13962	A	6698	2	180	
5912	13963	A	6699	1	143	
5913	13964	A	67	1016	1461	VSHSHLSSPQFNSHLNRRPTRIPLSQPK* GPAYSRPFVWTPAEPALRWRGRHP* ARGSRPSSAHSGWWRPGEAPRHTGTAQF PTAVPCRAHLDGEDSTFGPPGALGGVGF PSASP/PVPTPT*TQTRRRPETQLRQQTPR GAPRA
5914	13965	A	670	539	786	SIGRLRRVGHLSRGVRDPGQIHGGTPSL LKIQKFAHGGAFLYSQVLGRILQENRL NSRGCCSESQSQIYTAWVTE*DSI
5915	13966	A	6700	2	1069	SLVERLKMAASQA/VEEMRSRVVLGF VRNVHTIDPGNYSGYDDAWDQDRFEK NFRVDVHVMDENSLEFDVMGIDAIAJAN A/PRILLAAEVPTMAVEKVLVYNNNTSIVQ DEILAHRLGLIPIHADPRLFEYRNQGDFE GTEIDTLQFLRQLVCTRTRNPHAAKDSSDP NEL YVNHKVYTRHMTWPLGNQADLFP EGTIRPVHDILIAQLRPGQBDLMLHCV KIGIKDHAQKFSPPVATASYRLLPDTILEP VEGEAAEELSRCFSPGVIEVQEVQGKKV AQSCPTPRLLDTFSWREIFRNEKLKVVR ARVRDHYIFSVESTGVLPDVLVSEA VLMGKCRRLDELDAVQMD

5916	13967	A	6701	197		310	WLCYIIYK*YDNWWHSMCFSKPLYFPEIV SLNYILLKG
5917	13968	A	6702	3		67	
5918	13969	A	6703	3		517	
5919	13970	A	6704	150		840	GSLLSPDMANKGPGSYGMSREVQSKEKK YDEELEERLVEWIVVQCGCPDVGPRDRGR LGPGVWLKNGWILDRL*TTFTPDASKPVA KVPVKPPSCSSSKTEPLPHFLKAAEVDFY GVRPKSNIFQDL*TSLKGKUDMGSSSRGP LMMAFGQLWQVTKNNDGHYRGNDPNWFWY ERKPQOHKREFHRAQLQKGKAACPAL PDGAANRRGPPQARH*QGYGTTLQGQIJK LEAERAKP
5920	13971	A	6705	3		842	
5921	13972	A	6706	1		570	
5922	13973	A	6707	1		1437	
5923	13974	A	6708	3		286	
5924	13975	A	6709	172		364	FYLYLVMLCFIEPVKLILLIVGAYIL*LLKT IHEFHNCVDTKSLKGRHPKEYVFFTL NMFHR
5925	13976	A	671	24		452	ASPSDAMG(HSLWGKVNVNVEDAGGETLG RLLVVYPWTQRFDFDSFGNLSSASAIGMN PKVKAHGKKVLTSGLDAIKHLDKI.KGT AQLSELHCDKLHVDPENFKLGNVLT LAHFGEFTPEVQASWQKMTGVASA LSSRYH
5926	13977	A	6710	1		683	
5927	13978	A	6711	18		292	
5928	13979	A	6712	1		687	
5929	13980	A	6713	1		119	
5930	13981	A	6714	1		339	
5931	13982	A	6715	3		470	
5932	13983	A	6716	2		2942	TGAPAWPSRRLRDI.PAGGMWRRLRAA VACEVCQSLVKHSSGIGKGSPLQLHLV SRSIYHSHTPLKLRQPQLRTSQQFSSL TNLPLRKLKFPSPIKYGYQPRRNFWPARI ATRLLKLRYLILGSAVGGGYTAKTPTFDQ WKDMIPDLSEYKWTVPDIVWEIDEYIDFE KIRKALPNSEDLVLKLAAPDFDKIVESLSLL KDDFTSGSPFEETAFRATDRGSESDKHFRK VSDKEKIDQLQEEELLHTQLKYQRILERL
5933	13984	A	6717	38		359	
5934	13985	A	6718	122		282	
5935	13986	A	6719	2		1010	
5936	13987	C	672	336		728	MGLPKTGHQHQHFPQELESSSRIPHAGLS QVQVHFRQLGQRCLPRLRSSQVLLWHPLRK VSTFLPCALTLOVAHGWQRORTGCQSC QRTSGSMGRQGPFGFGLLQHLSFTILP HRLCDSSLVLLCEMTHGRLD*
5937	13988	A	6720	326		513	
5938	13989	A	6721	1		1076	
5939	13990	C	6722	11		79	MLPILRHTFLRVTLRGKKACLL*
5940	13991	A	6723	3		198	
5941	13992	A	6724	1		432	
5942	13993	A	6725	123		336	
5943	13994	A	6726	1		227	
5944	13995	A	6727	1		131	MPVLLTSDEMHKSSVKAGFAKVDQQQA PKSVQLLTVKTRDSTSNGNSGPRSQT DRICRTPYHFEDC*SGSTASPQVSSAIDS EDKRLNK
5945	13996	A	6728	3		364	
5946	13997	A	6729	2		197	
5947	13998	A	673	1		1254	
5948	13999	A	6730	2		421	
5949	14000	A	6731	33		294	

5950	14001	A	6732	2	670	
5951	14002	A	6733	1	171	
5952	14003	A	6734	1	789	
5953	14004	A	6735	3	363	
5954	14005	A	6736	2	379	
5955	14006	A	6737	116	373	
5956	14007	A	6738	1	164	
5957	14008	A	6739	3	122	
5958	14009	A	674	1	921	
5959	14010	A	6740	83	2455	
5960	14011	A	6741	83	2450	IRIAALDDFRTSLTMSSTRSQNPNGLQI GLDQIWDDLRAGIQVYTRQSMAKSRY MELYTHVNYCSTS VHOFVGLEYKRLK EFLKNYLTNLLKDGEDLMDESVLKFYTQ QWEDEYRFSSVNLNGICAYLNRHWVRRE CDEGRKGIIYEIYSLALVTWRDCLFPRPLN KQVTNAVVLKIEKERGETINTRLISGVV QSYLEGLNEDDAFAKGPILTIVYKESFE SQFLADTERFYTRESTEFLQONPVTEY KKAEARLLEORRVRQVYLVHESTQDELA RKCEOVLIIEKHLEIFHTEFQNLLADAKNE DLGRMYNLVSRIQDGLGELKLLETIH NOGLAAIEKC0EAALNDPKMVYQTVD VHKKYNALVMSAFNNADGFAVLDKA CGRFINNNAVTKMAQSSSKPELLARYC DSLLKKSSNPEEAELDETLNQVMVVF YIEDKDVFQKPYAKMLAKRLVHQSAS DDAEASMISKLKQACGFETYTSKLQRMF QD1GVS KSDLNEQFKKHLTNSEPLDLDPSI QLVSSGSWPFQSCFTALPSELERSYQR TAFYASRHSGRKLTWLYQLSKGELVTN CFKNRYTLQASTFQMAILLQYNTEDAYT VQQLTDSTQIKMDILAQVQLQLLKSKLLV LEDENANDEVELKPDTLKL1YLGYKNK KLRVNINVPMKTEQKQEQTTHKNIEED RKLLIQAAIYRIMKMRKV LKHQQQLGEV LTQLSSSRFKPRVPVVKCIDILIEKEYL EVADGEKDTSYSLALTLSKGGLDLCDPQ QIVHVGKE
5961	14012	A	6742	3	318	
5962	14013	A	6743	17	174	
5963	14014	A	6744	3	711	LSSCLCGSGKAFGMPTMRLLSFVVLA AVTQAEEGARLLVSKSSLNRYAVERGD LTLQNIYNVGSSAALDVELSDDDSPPED FGIVSGMLNVKWDRIAPASNVSHTVVLR PLKAGYFNFTSATITVLAQEDGPVVIGS TSAFPQGGMLVQREFDRRFSPJHFLLDW AAFGGHD/PFFPSGIPLLWVYSSKRK/YDT PKTKNNLJWGHFKPSSPKKSAPLPKKP QVLSQTPKGYP
5964	14015	A	6745	74	471	
5965	14016	A	6746	1	1371	MAENDVDNELLDYEDDEVETAAGGDG AEAPAKKDVKGSYVSIHSSGFRDFLLKP ELLRAIVDCGEPHEPSEVQHECIPQAILGM DVLCQAKSGMGKTAVFVLAQLQLEPV TGQVSVLVMCHTRELAFQISKEYERFSK YMPNVKVAVFQGILSIKCDEEVLKKN PHIVVGTGRIILALARNSLNLKHIIHFFL DECDCMILEQLDMRDVQEIRFMTPHEK QVMMMSATLSKIEIRPVCRKFMQDPMEIF VDDDETKLTLHGLQQYYVKKLDNEKNRK LFDLDDVLEFNQVYIFVKSVQRQCIALAQ LVEQNPAIJIHRGMPQEERLSRYQOFQFK DFPQRRLVATNLFGRGRMDIERVNIAFNY DMPEDSDTLYLHRVARA/GRFGTKGLAI TFVSDENDAIIKLNVDVQDRFENVISELP EIGHILLPTLEQDTVEDSPILGMLTVCFSQ

					GGGTPGWG
5966	14017	A	6747	2	139 AGSELGECEEVGILSYL/DERTNSEEGL RGEKRKRD/AENDGEEEDE
5967	14018	A	6748	3	270
5968	14019	A	6749	21	301
5969	14020	A	675	659	1601 SRASSSVVPLALPSLQVTFHPLNEGLTAV ASSMLSSFQPEIGTNATVLGL*PIFLM*VL TSLTISSYLFWL/RGWLSTTILEALDCIL PTTRPTDKPLGLPLQDVYKIGGIITVPVG RVEIGVLPKGMVVTFGPVNVNTTEVRKS EMIIHEALGEALPGDNVGFNVKNVSVKD VRGRGNVAGDSKNDPPMEAAGFPQAQVIL NHPGQISAGYAPVLDCHTAHJACKFAEL KEKIDRRSGKKLEDGPKELKSGDAIVD MVPGKPMCVESFSDDPPLGCFAVRDR QTVAVGVKAVIDKKAAGAGKVTKSAQ KAQAKA
5970	14021	A	6750	4	366 RHRVSLYPSEWSAVAQTHSSL*P*APWE LK*SF*LSLPSS*K*RSIQLCPG*LNRFFF/ CGRDGVLMLMSMLVFNSWTQVMLLPQQP QVLGLRVELDDYFLKVSSLVLFCLKQGY KRIWNP
5971	14022	A	6751	3	263
5972	14023	C	6752	54	161 MLPSIQTVEKRMNVFQYSQDAGFSPVN VFTIGR*
5973	14024	A	6753	161	1122
5974	14025	A	6754	1	891
5975	14026	A	6755	2	104
5976	14027	A	6756	957	1285 HGTRRRRDVIMREFRSRVKVRVLITIDL LGSRGLMCNNVSLVIN/YMDLPTNREN YIHRIGRGGSNLGGKVAINFCYLKKT GFLRDIEFTFLPILQWRRMPMKCGLTFL
5977	14028	A	6757	1	716
5978	14029	A	6758	2	835 FLSVLPPISRALLTPKRAPKKKMAISGVP VLGFFIAVLMASQESWAIKEEHVIIQAEF YLNPDQSGEFMFIDFDGDEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYITPNVPPETVLTNSP VELREPNVLICIDKFTPPVVNVNTWLNRNG KPVTTGWSSETVFLPREDTLFR/KFIYFPA FLPPTEDVYDFRVEHWGLDDEPLLKHW FDAPSPLPKITENVVVCALGLTVGLVGIII GTIIHKGIVRKSNAERRGPL
5979	14030	A	6759	759	1022 PTQQRKGTSHLGGGADAGCTAAEPPG GTAASAGAGAGRAGID*HPGTGAQHHHP PAVPGEAPEGETQQQVQEPAEAQGWQ PIHQPPF
5980	14031	A	676	1	1335
5981	14032	A	6760	2	689
5982	14033	A	6761	2	1011
5983	14034	A	6762	2	151

5984	14035	A	6763	3	740RP1GEFRSNADVOYQLLRCNVDLKKIQLGLTFMNEQGEYPGIFTSTWQFNFKNLTERMYNAQDLSIELLTTSQIOPKKHEEIGETQYFAELLMTSGVVLCEGVKWLSPHSGYDFGYLKILTNNSNLPPEELDFEILRLFPPV1YDVKYLMKSKCKNLKGGLQEVAEQLELERIGPQHQAGSDSLTGMMAFKKMRMFFEDHDDAKYCGHLYGLGSGSYVQNGLRGHMEEQSQQGSPWTWK
5985	14036	A	6764	296	522IWVFHNLLKGLEIFCFCILKYFLEELLILF*TKTL*KHASFLKNNPNSIQDMESSTTVHRSGLGGSLCADVLSLQWL
5986	14037	A	6765	3	333
5987	14038	A	6766	1326	1980TSEASRQSERVDSAALSALSSRSSKCRPWGTARVARAGGCLTPLLSRKFLETTRPF TGPWDPLGLVTWCWCCPKRRLKSTRPK FSVCVLGDDQHQHCDDEAKAVDA1FEVCLG DQVLNSNANGFLSLSAKYDAFLASESL1KQPRULGPGLNKAQGFPSLLREEGQAJCYSSTNLT*SSLPSQVQLCLAVAVGHVKM TDELVYNIHLAGVFLVSLKL
5988	14039	A	6767	11	713EAMSVKVSRLDTLYEAVERVLFHGTRQKR RKFLETVELQISLKNYDPQKDKRFRSGTVRLKSHSPALSFSVCVLGDQRQHCDUEA KAWDIPHMDINEALEKTSTKNNKKLVKK AQRKYYDAVFGPQSSLIKQIPRIPRAPGL NKAGKVPSPSLTHINENMVAKVDEVKS PIFKQMVKVCLAVAVGHVKMTDEL VFNIIHLAIVNFLVSLKLKNWQKCSGAL YYQEAPMGQSPKRLY
5989	14040	A	6768	2	277
5990	14041	A	6769	1	336
5991	14042	A	677	1	811
5992	14043	A	6770	132	347
5993	14044	A	6771	3	109
5994	14045	C	6772	5	160MGEFGGPKILNWFKKKVXQXSXSLXKG QXESIFLNTXKVRAGDTXKSVLG*
5995	14046	A	6773	52	310YIRTOQTQISHHPLHYIILGSACKKLCFGKS YFIRGGSFRKGQGHEERGLKYKKKTGEG V*KRTKKQTKTKTITKYLKSRCCGNV
5996	14047	A	6774	149	333
5997	14048	A	6775	1	1616LFFFFFFLESTRFY*FFFFFFFTIQTFKGG PLSPFFFLLFFIKPLPQFFFFIL
5998	14049	A	6776	2	138ASGHREVQDSYEAYQDDWNGTITSLK/ APPARPVKGAYREHPYGRY
5999	14050	A	6777	1	1212
6000	14051	A	6778	3	150
6001	14052	A	6779	2	1622ASVATAPALPPPAAARASVAAASLRSRL DRTSSQMQRDRDPAARMSSRSGRSGSM DPSGAHPHSVRQTPSROPLPHRSRGGGG QSRGGARASPATQPPPLPPSATGPDATV GGPAPTPLLPPSATASVKMEPEPNKYLPEL MAEKDSLDPSPFTHAMQLLTABIEKIQKG DSKKKDDEENYLDLFSHKNMKLKERVLIP VKQYQPKFNFYGKILGPQGNITIKRLOET GAKISVLGKGSMSRKDAKEEELRKGGDP KYAHLNMDLHVIEVFGPPCEAYALMA HAMEEEVKKFLVPDMMDICQEOFLELS YLNGVPEPSRGRGVPVRGRGAAAPPVVV PTGRGVGPGRALVRGTPRGAITRGAAT VTRGVPPPTVRGAFC*RARTAGWQRIPLP PPPAPEATYEEGYEDTYAEQSYEGYE GYYSQSQGDSEYYDYGHGEVQJDSYEA LWPRINWNGTRPSLAKPLARPVKGAY REPPYGRJLKTKHGENISYEQSSLDFL YLPGIPVALPTTDQGNWSKCFFRGSPSF SPTLJPF

6002	14053	A	678	269	561	LSFVGSLSRILFTAGFAECPRFRRPAPNP RTPSTRNSAPDSQKGATWATAVQAAPR WT*ETGSNPWPFLAACCSRSPRGPPASF GGSASCCKLCLK
6003	14054	A	6780	1	76	
6004	14055	A	6781	1	287	CFL*DRVLLCHPGWSA VAHNHSSLQP*T POIKOFSCRLR/SSS*DYRCTSPYLAFFFFF *UFCRKQSLSLATVPTIISNSWPQAII LSW S KHVEITGF
6005	14056	A	6782	3	64	
6006	14057	A	6783	2	69	
6007	14058	A	6784	1576	3458	
6008	14059	A	6786	1	960	
6009	14060	A	6787	507	755	NKRGYKOMEHHSMMLGRKNQYRKNGH TAQGNL.*IQCHPHQATNDFLHRIGKNDF QVHMEPKKSPhRQVNPKPKEQSWRHHA T
6010	14061	A	6788	274	882	PDQVDRGGAHWQT DADDPPHLLDHOH CORCGEILRHYSGGIRGNVSAVKCAEH VPAFARLNPQCGDFQRLDYRLFDSPGV KRREL*TAYRFCHVAP*LMDLRLSGWAA GAVYRYQSH*FTADRLRSVDMDEAGN HHSQQTSQDQKIKQRTTLSIGS*TTTH GHREGNITHRLSLRPNTARILCASKAHL GLPLRSSLP
6011	14062	A	6789	114	329	
6012	14063	A	679	415	1094	SKSRMSAEVIHQVEEALDTDEKEMLLFL CRDVVAIDVVPPNVRDLILDTERGKLKV GDLAELLYVRVRFDLKLRLKMDRKAVE THILLRNPHLVSDYRVLMAEIGEDLDLKS VSSLIFLMKDYMGRGKISKEKFSDLV ELEKLNLVAPDQLDLLEKCLKNHRIIDLK TIQKYKQSVQGAGTSYRNVLQAAIQKS LKDPNNFRMTPYAHCPDLKILGNCSM
6013	14064	C	6790	1	193	MDGDTSDFPIDIGIROSNSYSCCGCPRI PYVWRVTGRAHTQTIVVFMAKVYYG NVMRREKDSGGA WGNPWAGILLPPST RNCTVHSSFSNENIEPQHQHTSSCVVHNQ YIGADFPWSNSFSVVE NYVEDSCWTK HCKELNIPYMAFKVILPDTVLERSTLDR FGFGLLEIOPYVVFASEGLLNTPDILQOLL ESKDMD EAGNHHS EOTVTRTENQTLHV LTIRWELNNENTWTODGEHHTPGPVVG WRELIJAPGVETATLIRQJADHSLMTSKR DPHEWLDSWLVKVS PSEENRNQISTLSS QSSASLD SVIQEHN ENEYQYQYLGLGETTVQ EDKTTLNDNSSIMELKEISSFLPPVTSYN QTSYWKDSSCKSNSIGQNTPFLINIESRRP AYNSFLNHSDES DVSFLGTQMNCECTI KSPTDOKRVS VVPRFINSQKRRTHEAK GFINKDVS D PIFSLEG TQSPLHWNFKKNI WEQENHPFNLLQYGAQQTACAN KLYSOKG NLFTDQOKCLSDESEG LCESSKDETWF RELPSVPSLDLFRASD SNAN QKEFNSL YF YQRAGKSLGQKRHESS FNSGDKESLITE EKTEAQEKMTTEDR GRGWGYATTNR MPRIAGNHQEPGERG RTPPPSE APEGSNP ANTLILDFPPPEL*
6014	14065	A	6791	190	486	FLLFFLHD*YSSSNLQKV NKSIPPTGPS LCPCV LVLQPLMSEN MRCV FCSCVSL LRMMVSSFIHVP LNFNNAFILLNFFRCP LJSCHMIKKSSS
6015	14066	A	6792	1	597	

6016	14067	A	6793	1	721	MTSYNEQNKKPVTDPNEMAIHEDSNQE FKIAVVNETQRSPRSSPTEHLMTPPPLPT REQQPPLTIVFHFLYKPSYKTAPPPLSPFPDS LFGLSQFAPRDMDEAGNHHNSQQTWVQEQ KTKHCMFSLTSGS*TMRTTHGHEREGTIVH RGLLGQFSQQLINKSEFSNTVCREKSGR VLQVNMEESPL*MIQDALQDQTTPKGIPIT VPL*FLYDHLLRSSHKVASYLSTESRSR GSITVLFIRCESEP
6017	14068	A	6794	417	696	DRNRKANTACFCQHSQVGVQE*EHMDTG KV*SI*YGNYEHSTCERMEIQKATTEHL NL*SSGSFLRFTWKMLQFSKISRFSFYQV LKHQOKIM
6018	14069	A	6795	325	1489	RSPTLLMHVHYIKVISWRELLIWIWRAA NASINPGEVEOPSPGDPKTVTGPFLRLAE ADWVEEASVPKGVHIALSSQEQRAGDP RDLEAPSNLVISERTHRSFRVSWTPPSDS VDRYKVEYVPPVSGGKRQEVRTPGVPD LRLPAIIPOAAWLALAHLPAPSAPPTELPT KHTEAQSQRQCWSILLCSVTEVAAPSQV VKEAPPSFHGTENGYQGEESELFNKAY GOGTNFRKESQKLQSQSAKKRDAELAN GALGIELNDYTLLKVMKPPLTSNTVTD EIERANVFKMNGKWLFTDSRGSKMTI DENKIPRNPTYKGREGPLOGELQTTAQG NKRGYKQMEEHSMLMMDRKNQYRENGL TAQAIPQPPPSGI*GYTAPCFPWENLI
6019	14070	A	6796	274	716	QACYIYTTEYYAIKNDFT/VLCRMD EAGNHHSQQTVRTKKNQTPHVLTHERWE LNENNWTQEGEHHTPGPVMLDSSAPPTL GHQTPGSSAFLAGWDLHQRLRPLRPQTKG STVGFPGSEAFKLGLGHYWLSPFPLQT AYRGTLPFNH
6020	14071	A	6797	1	870	
6021	14072	B	6798	328	2283	MKLEAIILSKLTOEOKNOTLHVLTHERWE LNENNWTQGGHEYHTLGPVDGFQKKEE AAIGAILQPLVIOTVLGVDLQQTLADLQ QRGLLEEKLTNRKKIAHTVDRDHQREHN SSPAREONWMNTFDELTQVGFRRRWVI NSELKEHDLTQCKKGTVMMLETTIFSK LTQEOKNOTLJIVLTHKWEWNENNWTQ GGEHHHTLGPVWRMFQIVVAAERMUDKI PSIAFGFLLDLROWFARGCWSPGHRLKA ARITAPRLAREQNWMENEFDKLTEVVF RWVITKSKLKEHALTQCKEDKNELEKKEL ATQQQMSSRTASEASSVFTATPHCYHY LSSASYHISGSIRPVPLEKIRLHMGLENK CKVLLSGGSSSSQQMYGDLEGGWNGKV VFVPSWAVOPEASPPPTLGQISLTVCSCST VNGLPASDVVFCCREALPRNLQKFPAKD LGCILLQYIDNLLLOYSTAVGCARRMDA LLRHLEDCGYVKSKKKAQICRCRQQTEGEQ TIERWIKLSDGRIA VPOLLAAGAVVLA HKTILHGOESLEKLLQYFYISHLPALAK TVAQOCVTCQQRHAKQGSPSVPPGIQAY RVASFENLQVDFTEMPCKGDQGLERGST VALVEGTPDHYDPDHSHSYKGRRNPKLD SHSCVKPATAKT*
6022	14073	A	6799	2	472	
6023	14074	A	68	241	492	GGQIMRSGY*DHPG*/HGETRSILKJQQL AGHGRHJL*SQLRRPRLENRLNLGGRG CSEPSRRHCTAAWATE*DSVSKKKSR

6024	14075	A	680	551	1706	SKSRMSAEEVHQVEEALDTDEKMLFL CRDVAIDVVPPNVRDILLDFTRERGVLS VGDLAEELLYRVRFRDILKRLIKMDRKA VETHLLRNPHLVSODYRVLMAEIGEDDLK SDVSSLFLMKDYMGRGKISKEFLSDL VVELEKLNLIVAPDQLDLLEECLKNINRI DLTKTJKYKQSVQAGTSYRNVLQQAAI OKSLKDPNNFRLIJNGRSKFORLKEOLG AQQEPEVKKSQISEAFLPQSIPPEERYKMK SKPLGICLIDCIGNETELLRDITFTSLGYE VQKFLHLSMHGISQILQFACMPHEHRDY DSFCVCLVSPGGQSOSVYGVQDQTHSGLP HHIRRMFMGDSCPYLAGPKMFQIINY VSEGPAGEQOPLGGWMGOR
6025	14076	A	6800	1	239	QCCSGGTHGNPAIGDRMVKQQLPWA PAQMIRKMAPPERKYSVWIAAPLASLSTS SRMWISKQEYDESCPSIVHRKCF
6026	14077	A	6801	2	440	TGIVMDSSDGITHIMPIE <sup>E</sup> GYTLPHAILP LDLAGQDLTDYFMKILKEGGYSFTTAE REIMLDIKEEKLCYITLDFEQEMATAASSS SLEKS <sup>E</sup> ELLNGQVITISNQWFHCP/EYLQ PSFTSIMKCDVDICKDLYANTVLSGGT TMY
6027	14078	A	6802	2	212	
6028	14079	A	6803	3	443	
6029	14080	A	6804	1	1470	MSTRPRRPPOLGRSTGRARLASRVA AAA GPGPARAPLAGDRAPAAGAPRAGAP CRPDPEPPAAAGPTRGSREGGKTGNRGK EREKGRRQAQSLAFADPPPVA TRRQLTMD DDIAALVVDNGSGMCKAGFAGDDAPRA VFPSIVGPRRHQGVVMGMGQKDSVYGD EAQS KRGILTLYPIEHGIVTNWDMMEKI WHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMPFETNTPAMVYAIQAML SLYASGRTTGIVMDSGDGVTHTVPIVEG YALPHAILRDLLAGRDLTDYLMKILTER GYSFITTAEREI <sup>E</sup> VRDIKEEKLCYVALDFEQ EMATAASSSSLEKSYELPDGVVITIGNE RFRCP EALFQPSFLGMESCSUHETITNSI MKCDVDIRKDLYANTVLSGIGVITMYPG VADRMQKEITALAPSTMUKIAPSP <sup>E</sup> RK YSVVWIGGSILGL <sup>E</sup> LSTT <sup>E</sup> QWMWISKQ <sup>E</sup> YD ESGP <sup>E</sup> SVHRKCF
6030	14081	A	6805	171	393	GKPKPKPKPLPKPKSREISHIP <sup>E</sup> GL <sup>E</sup> KAGP FRAPGRPGCKPCWLGPSGPGR <sup>E</sup> GCP <sup>E</sup> K ASPKVVLGENLTLKNP
6031	14082	A	6806	3	264	SRRGSSPAQGSSLGRPQLLSAQYK <sup>E</sup> WVG OGDRVSL <sup>E</sup> TMDP <sup>E</sup> SLAPKTQNRAQS <sup>E</sup> SKLD LQPA <sup>E</sup> APWP/PQLCGHPVPSPASC <sup>E</sup> PKS <sup>E</sup> TF KPT
6032	14083	A	6807	1	632	
6033	14084	A	6808	1	591	
6034	14085	A	6809	783	1516	
6035	14086	A	681	76	158	
6036	14087	A	6810	1	951	
6037	14088	A	6811	122	271	
6038	14089	A	6812	3	132	
6039	14090	A	6813	3	302	
6040	14091	A	6814	2	2158	
6041	14092	A	6815	2	186	

6042	14093A	6816	1	866	MMEAIIKKMQMLKLDKENALDRAEOA AEQKQAEERSKQLEDELAAMQKKLKG TEDELKYSEALKDQAQEKLLEAKCAA DAEAEVASLNRRQIQLVEEELDRAQERLA TALQKLEEAEKAADADESERGMKVIEIRAL KDEEKMELOEIQLEAKEAHIAEADRKYE EVARKLVIEGDLERTEERAELAESCKCSE LEEELAKVNINLKSLSAEQAQEKYSQKD KYEEEIKILTDKLKEAETRAEFAERSVA KLEKTIVDDLEDELPAQKLWKYKALSEEL DHALNDMTSI
6043	14094A	6817	1	639	
6044	14095A	6818	1	1710	
6045	14096A	6819	764	1203	FWLWVFSFWPCNTHTTSKSTSFPSSPTQ ATRFGVLF/WFVIKASIGQYCIARERKEFT HPVGRLSCLRQLKLYNGTTETVTWSNSH TERNPFSKFPKLRTVVWTHPESHRDWTAP TGLYWICGHRAFAKLDESAGIGGPQKG AIGIKE
6046	14097A	682	1	2313	
6047	14098A	6820	24	225	AROAQAQFWAWRWAACLFWFYFLVVFS *NRY*VSNNKNNIRRSLSLNSCKF/WS TRQQK*IPKMLS
6048	14099A	6821	1	1752	
6049	14100A	6822	110	203	
6050	14101A	6823	76	353	
6051	14102B	6824	64	930	MILRSVWNFLKRHKKKCIFLGTVLGGVYI LGKYGOKKIREIOQREAAEYIAQARRYQ HEESNQRTCNMTVLSMLMPTLREALMQQ LNSESLTALLKNRPSNKLIEWEDLKIISFT RSTVAVYSTCLMLVLLRVLQLNIGGYIYL DNAAVGKNGTITLAPPDVQQYQQLSSIQH LLGDGLTELITIVKQAVQKVGLGSVSLKHS LSSLDLBQKLKEIRNLVEQHKSSSWNKO GSKPLLCHYMMPDEETPLAVQACGLSPR DITTIKLHFHKTEDMLGSPDFRQFLNTCPK PRF*
6052	14103A	6825	385	666	
6053	14104A	6826	701	930	VAERQTGTGQGTVGDTIDRATSM*MRQ RRGCCF/ATCC/FRHEGVPVWPQGRYHD HEGGPFRARLIHCTPDVLPYHVP
6054	14105A	6827	248	719	TDEPSLSSHTFCPKGALLSACSGACPLOSS GTQAGMPSTEALQPCRGLTVPHQODK GHRACC/VVKALAADWSVEWQKGRGG LQKALSVTSR/IRATSM*MRQRGRGCCFAT CC/FRHEGVPVWERGYHDHEGGPFRAR LIHCTPDVLPATISPNVGSTA
6055	14106A	6828	1	2489	
6056	14107A	6829	227	547	FHNKCPRRLESLRQQISIFGMPHENHLKM QLRSAPDSLDPFCAGPLHLGEELLHRV EQVGAEVARVQQDFVL*GDMVEHLPBP GRQAESTPPPTVPGNPNPETLRRR
6057	14108A	683	788	926	PSPELPEGDFEGFFPQKLQ*SCLPTLQQK NNNNNNNNNNNNNNNEK
6058	14109A	6830	3	433	
6059	14110A	6831	37	360	
6060	14111A	6832	280	1816	
6061	14112A	6833	3	251	GGALRLHQVPPALPLRGAVSGAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGLSLQPPPFRKRSCLILPSSWDYRH
6062	14113A	6834	3	251	GGALRLHQVPPALPLRGAVSGAAVQG MSDCTPCCEVHLLQD*VPAGEARVQWH DLGLSLQPPPFRKRSCLILPSSWDYRH
6063	14114A	6835	2	340	
6064	14115A	6836	220	412	

6065	14116	A	6837	425	619	
6066	14117	A	6838	1	684	MESEQPTESSQNGKQYIISELISEGKWKV KLEKTTYMDPTGKARTWESVKRTTRKE QTRDGVAVIPVLQRTLHYECVLVKQFR PPPMGGYCIESPAIGLNUDDGETPRKQQLSSR ELEEETGLQRGPPLPEC/SLPACVMGPQAC PNCTNIIHVT/TPINGDDAENARPKP/KSP GDGEFVEVVISLPKNDLQLRLDALVAEE HPHSGTPRVSYALALAKHANAKP/FEV PELK
6067	14118	A	6839	3	194	
6068	14119	A	684	242	437	CSCFFCLIRCYDSLPLPLLLNNNNFLGTES CSVAQAGVRWLNLSSSATSGLPGSINSP ASAS*AA
6069	14120	A	6840	1	168	
6070	14121	A	6841	3	191	
6071	14122	B	6842	15	377	MAALCRTRAVAASEHFLRVFLFRRPFRG VGTESGSEGSNSNAKEPKTRAGGFASAY GAARRSFYRRWSPYRKXVEPGRGSPKKC GILCIYAEITILPLTTDGLTQTTKLVHWWTG SF/FVENDL*
6072	14123	A	6843	2	205	
6073	14124	A	6844	1260	1628	SFLCLVSCFSNF'S*NCSPRVFSLSLKFDFV FVLFCGDVLLCHPGWIAVAQSRLTTAST SRN/KRFSCLTIRSSWDYRRPPCPADFCIP SR/DRGFTIMLARLVWNS*PQVICPPPPPK VLGLQA
6074	14125	A	6845	3	629	
6075	14126	A	6846	15	241	
6076	14127	A	6847	93	172	
6077	14128	A	6848	3	82	
6078	14129	A	6849	2	237	
6079	14130	A	685	1	1254	
6080	14131	A	6850	407	529	
6081	14132	A	6851	2	383	
6082	14133	A	6852	1	444	
6083	14134	A	6853	1	279	
6084	14135	A	6854	3	989	
6085	14136	A	6855	1	318	
6086	14137	A	6856	1	397	
6087	14138	A	6857	15	95	
6088	14139	A	6858	3	350	
6089	14140	A	6859	118	325	
6090	14141	A	686	73	1553	PLAKMGKEKTHINNIVVIGH/WDSGKST TTGH\IJIYKCUGGNDKRTIEKFEKEAEM GKGFSFYAWVLDKLKAERERGTFIDISL WEKFETSKYVVTYPDFDAP/GH\RDYPK WITGDFRLDWFGGPPFWGGSP/LIVAAG VGFEAEGYLPRNGADPERHALLAYTLG CETIKLGSVNVKNNGIPLPPTTAQKKLKE VKGKSALTTRKIYGNPDTSILCPISGWVN GDNM/LEPSANMPW/FQGDGKVTRKD NASGTTILEALDCILPPTRPTDKPLGLPL QDVYKJGGIGTV/PVGRVETOVLKPGMV VTFGPVNNTTEVKSVEM/HHEALGEALP GDNVGVFNVKNVSVKDV/RGNVAGDSK NDPMPMEAAGFPQAQVIIHLHPIQSAGYAP VLDCHTAHIAICKFAELKEKIDRSGKKL EDGPKFLKSGDAATVDMVPGKPMCMVESF SDYPPLGCFAVRDRMRQTVAVGVKAVD KKAAGAGKVTKSAQKAQKAK
6091	14142	A	6860	1	135	
6092	14143	A	6861	1009	1140	
6093	14144	A	6862	3	416	
6094	14145	A	6863	4	252	

6095	14146 A	6864	3	130	
6096	14147 A	6865	1	1590	
6097	14148 A	6866	1	595	GTRRLAPTAQRKRDENQSVKPEPGRGAS VRGGNLQLTLPAGGDFLTCPSARDFRXRP AGQTQVPAAEATAVEPVPAVVAGARGGR VMSEPPQRGAERDLYRDTWVRYLYGAN EVGEAFRSLVPARVVWLSYGVASSYVL ADAIKGKEEELERCPALEASRSARVTV VVDITFWQALASVAPIGFTINRVCAASL YVLGT
6098	14149 A	6867	2	453	
6099	14150 A	6868	1	265	
6100	14151 A	6869	46	194	
6101	14152 A	687	67	408	KAAGKRGDFKTEGAYORQRTIFKNKKR ARREKTGRENLRGNYKNMGRGLKTPRG ALGGPYLDKKGPLRGKGPFQGGTLSSS PKIKIQGTL*IRRNWPyIrryNRFKKRQ KNNM
6102	14153 A	6870	4	228	
6103	14154 A	6871	1	288	
6104	14155 A	6872	1	885	
6105	14156 A	6873	532	687	
6106	14157 B	6874	158	3331	PRPPAAGEAQAAADMNHQQQQQQKA GEQQLSEPEDMEMEAGDTPDPRTQNP VINGNVALSDGHNTAEEDMEDDTSWRS EATQFTVERFSRLSESVLSPPCFVRNLP WKIMVMPRFYPDRPHQKSVGFLOCNA ESDSTSWSCHAQAVLKINYRDKEKSFR RISHLFFIKENDWGFSNFMAWSEVTDE KGFIDDDKVTFEVFVQADAPHGVAWDS KHTGYVGLKNQGATCYMNSLLQTLLF TNQLRKA
6107	14158 A	6875	589	732	
6108	14159 A	6876	1	799	
6109	14160 A	6877	2	470	
6110	14161 A	6878	3	204	
6111	14162 A	6879	367	551	EHSTLKLPHYHTQEAGAAPGPTGTDHSHEV DHLEGGAGKEAGPCA*SLGTMVAPVRS NSGSPE
6112	14163 A	688	10	386	AGAAAIGEPMA*RGEGHPPWSVDERAD STNVNNWHWTERDASHWSTDKLKTLFL AMHVQNEERNGEATEEVSKLDGEASINN RIGKLMFYEWGVILDWTGAS*SGVPY KGHVEIPYLADENCVDE
6113	14164 A	6880	24	547	
6114	14165 A	6881	1	828	
6115	14166 A	6882	2	270	
6116	14167 A	6883	2	114	
6117	14168 B	6884	75	293	MPSIKLQSSDGEIEFEDVVEIAKQSVTIKT MLEDLGMDDEGDDDPVPLPNVAAILK KVIQWCTTHKDDPPSS*
6118	14169 A	6885	446	639	

6119	14170A	6886	3	1503	ARQRSSRAPTTTHTRALVRLFGSQSAP PPPPRSPSPSAAMISTRSVSSSYRRMFGG PGTASRPSSSRSYVTTSRTRIYSLGSALRP STRSLYASSPGGVYATRSSAVRLRSSVP GVRLLQDSVDFSLADAINTEFKNTRTNE KVELQELNDRFANYIDKVRLEQONKIL LAELEQLKGQGKSRGLDLYEEEMRRELRR QVDQLTNDKARVEVERDNLAEDMLR EKLOEEMLQREEAENTLQSFRQDVNDNAS LARLDLERKVESLQEEIAFLKLLHEEIQ ELQAQJOEQHVQIDVDVSKPDLSLRLD VRQYESVAAKNLQEAEWYKQCVC* PLLRASRNNEPLRAOKVQESTELPENR VQLSTCDEVDAL*RKPMSLRLQRLREME ENFCIAVKAANYPRPFLARLQDEIQNY* RREMASLTIFVEYQ*PALNVKMAP*HRLF ATLQE/MILGRRGERGFPLASFPNFSLP* TLRGNLJWDLSLPSGLPHSKRDT
6120	14171A	6887	3	232	
6121	14172A	6888	252	384	
6122	14173A	6889	3	196	
6123	14174A	689	2	323	REMDDLVHNAMDQLEQRVSEFFMNAAK KNPEWREEQM ASIKKDYYKALEDAD E KVQLADQIYDLURSLELDTPSQPVNNHH AHSHTPAEKRKYNPFTSHHTTDHIPEK
6124	14175A	6890	1	2994	
6125	14176A	6891	75	350	TGIPVNSYRVKINWYTQFVSLFRPPG L VINNQLADQSESEGPIQESAEPSQLAEVP ATEEIKETDGSSQIKQEPDPWT EISF
6126	14177A	6892	1	2935	
6127	14178A	6893	214	301	
6128	14179A	6894	1	2879	MAQVAMSTLPV EDEESESRSRMVVTFL M SALES MCKELAKSKA EVA CIA VETDV F VV GTERGRAFVNTRKDQKDFV KYC VE EECKAAEMHKMKSTT QANRMSVDAWEI ETLRKT VEDYFCCYKG ALG KSTVV PVP YEKMLRDQSAV VVQQLPEGV AFKH PEN YDLATLK WIGENKG GISFI I KRP FLEPK K HVGRVVMVT DADRSILSPGSGCGPKVK TEPTEDSGIS LEMA A VTKEESED PDY Y QYNIQG
6129	14180A	6895	1	334	
6130	14181A	6896	3	444	
6131	14182A	6897	117	1009	
6132	14183A	6898	5	808	LPLPGR A VWC THCCAP TPSGPVLPH SAA MSFLKS PPPGP AEGLLRQQPDTEAVLN KG GLGT GTI LYIAE SRLS WLDGS GLG FSL EYPTISLHALS RDRSDCLGEHLY VMVNA KFEESKEPVADEEEDS DDDV EPITEF R FVPSDKS A LEAM TMC E CQAL HPD PED EDSDDYDGE EYD VEA HE QGG QDIP ITY T YEGI LSH TAEGI QATL ERLEG ML SQVS SQV N MAGIV RT EDSIRD YED GD GR LDT TP TV CLG QF EDAD V
6133	14184B	6899	233	411	XALNGLS A QDNW A K L Q RD YPD ALIT NY YLWPAVQLANFYLVPLHYREDPASTT LV SDP T*
6134	14185A	69	709	941	SQH FERS SGDQ HII PGQ HG ETLS LI KM QK LAG CCG MRL *SQL GRL RQEN LLN PGC RGCS K PR SHI CT PA WVT Q QDSIS
6135	14186A	690	2	495	AKKNKPEWREEQM ASIKKDYYKALED A DE KVLLS NSN QIYDLV DR GGR KLD QE LAK FKM ELEAD NAG ITEL RRS L ELD TPS QP VNNH HAHSHTP V EK R KYN P TS HHT TD HIPEK KFK SE ALL STLTV RCLL R E NT LG C RNNN STASS NN YNVNS SQL GS YN

6136	14187	A	6900	109	435
6137	14188	A	6901	34	408 RQWLQEEAYITKEQKYSFLHDSQTISFCF SDSIPTSNMEETQQ/KSNLELLHSILLLNV QRSLPVRFLRSTFTNLVYDNDSDDDY QLLKDKLEGG10MLMGRLEATN*LGGP QANYNKFDKTRTT
6138	14189	B	6902	80	495 XPGSRSTSLLAFAFLCLPWLQEAGAVQ VPLSRLFDHAMLAHRAHQLAIDTYQEF EETYIPKDQKYSFLHDSQTSFCSDSIPTP SNMEETQQKSNLLELLRISLLIESWLEPV RFLRSMFATTWCMTPTAMTITS*
6139	14190	A	6903	1	597
6140	14191	A	6904	3	552
6141	14192	A	6905	3	716
6142	14193	A	6906	359	648 WIPRPNSPNHSGSCGQAHLVAMAPGSRT \\\$LLAFAALLCLPWASRRLGAVPKPFRIS RLFDHAWMLQAFRAHQLANDTYQEFEE TVIPKDQKYSFLA*PQTSFCSDSIPTPS NRRTQQKSNLLELLRISLLIESWLEPV RFPQEYCANSNLGVLTIPRTAIDYHLLKD LEGGHPTV*WNICREVCFSACFSRGIRD IEEDDQEAAYFRYMAENPTAGVVQEEE DNLEYDSDGNPIAPTKKIJDPLPPIDHSEV DQHGLRPEGTHLTLEKERTSWVESVADTL CITLTTLVMDPKAQLPEPLRVLWTGPS GNGSRLPDVPCSWLPPCSACPGLQGGW VPCQNRSVYPGFFDHAIAPSNSRAPAGH CTPTRSLKKPHPKDQKYSFLA
6143	14194	A	6907	113	411
6144	14195	A	6908	3	1162
6145	14196	A	6909	2	265
6146	14197	A	691	50	391 GSQKIAFWSGFECDSIEIRLTDLESWLY ILPATOPWSLTIFYFOFSFILTFRLRYDKLF FFFLYLYLNLFLYVFLFIV*ICIFCYIY LVIIFKCVV*FFIFFVCFMLFL
6147	14198	A	6910	3	151
6148	14199	B	6911	58	359 SLAAALQAYSHWLAQYCSEVHRQNTQQF VTLISTTMDAITPLISTKVQDKLSSACH LLVSLATTVRPVFLISIPAVQKVFNRITDA SALRLVDKRMSSGP*
6149	14200	A	6912	4	329
6150	14201	A	6913	2	256
6151	14202	A	6914	1	350

6152	14203	A	6915	257	2659	VDCRMS/FSYIEKFDTFLRLFVSVHLRRIESYQQFPVVVEFLTLFLKYTFHQPTHEGYFSCLDIWTFLDYLTSKIKSRSLGDKEAVLNRYEDALVLLTEVLNRIQFRYNQAQLEELDDETLDDDDQQTWQRYLQRQSLEVVAKVMEELLPTHAFTSLFPVLQDNLEVEYLGLQQFIVTSGSGHRLNTAENDCRRLHCSSLRDLSLQQAVGRLAEYFJGDVFAARFNDA
6153	14204	A	6916	1	321	
6154	14205	A	6917	1	259	
6155	14206	B	6918	1	3045	MPDCTSKCRSLKHADLVLSVVTKGSENQIKAFSSHHCYNAATIKDVFGRNALHLVSSCGKKGVLDWLQKGV DLLVKDKESGWTAHRSIFYGHIDCVWSLLKHGVSLYIQDKEGLSALDLVMKDPRTHVVFKNITGCLLDPNNGEKCVTAPRQVSALHHKDIALSLVAASDGATVCVTRGDYILLADYOCCKMASKQLNLKVKVLVSGGHMNEYKVDPDEILKENGGOKICILAMDAGRVRFCWRSVNSSLKOCRWAY
6156	14207	A	6919	1	1149	
6157	14208	A	692	3	546	PAPPGRVFAAWPGSEEARVLVVLKGCA
						CRAGLFKMYPPLPMTEVCTKSSTVTWF
						CFAAAYESLFEETPFSIAIGVSVLVPSWGTL
						ALS*VCFAAFA*LLASLFSQDPLVSPSAA
						MWASPAFCFAEPSSAAIGVSPSSSSVFTQ
						QS**GSPLAGSASASA KNMARARSVAPP
						RNGRPGNNTNADS

6158	14209	A	6920	426	2967	HSAPPAVLRRGGMSEAGGAGPGGCAGAGA GAGAGPGALPPOPAALPPAPPPQGSPCAA AAGGSGACGPATAAVAAAGTAEGPGGGG SARIAVKKAAQLRSAAPRACKLEKLGVYSA CKAEESCKCNGWKNPNPSTPPRADLQQ IIVSLTESCRSCSIALAAJHVSLENVSEE EMNRLLGIVLDVEFTCVHKEEDAADTK QVFVFLKILRKSILORGKPVVEGSLEK KPPFEKPSIEQGVNNFVQYKFSHLPAKER QTIVELAKMFLNRINYWHLEAPSQRRLR SPNDDISGYKENYTRWLCLCNVPQFCDS LPRYETTQVFGRTLRSRVTVMRRLQILLE QARQEKDLPLEKRTLILTHFPKFLSMLE EEVYSQNSPIWDQDFLSASSRTSQLGIQT VINPPPAGTISYNSTSSLEOPNAGSSSP ACKASSGLEANPGEKRKMTDHSVLEEA KPKRVMGDIPMELINEVMSTTIDPAAML GPETNFLSAHSARDEAARLEERRGVIEFH VVGNNSLNQKPNKKILMWLVLGQLNVFSH QLPRMPKVEITRLVFDPKHKTLALIKDG RVIIGICFRMMPSPSGFTIEIFCAVTSNEQ VKGVGTHLMNHKEYHJKHDILNFLTY ADEYAIYGFKKQGYCKEIKIPITKYYGGYI KDYEGATLMGCEUNPNUFYTFESVIIK AE/EGIIKKLIERKQAQIPKPKFTLGLSCFK DGVRPQIESIPGJKKAQGWNPSGKEKSK PRDPDQLYSTLKSILQQVKSHQSAAWAF MEPVKRTEAPGVYEVIRPMDLKTMSER LKNRYYVSKKLFMADLQRVFTNCKEYN AAESEYYKCANILEKFFFSSKIKEAGLIDK
6159	14210	A	6921	1	184	
6160	14211	A	6922	114	384	
6161	14212	A	6923	141	1741	
6162	14213	A	6924	1	153	
6163	14214	A	6925	1	200	
6164	14215	A	6926	2	242	
6165	14216	A	6927	132	251	
6166	14217	A	6928	132	251	
6167	14218	A	6929	2231	2578	PLPPGSRTLHWMAPDEEDFRIGN*TMNA IFFFLFLFFFFFFFLRQSFALVVQAGVQW HDLSSLQPPPFRK*FSCSLSPSGWD*RH APPRAIPAVFLVEMGFHHVNQDGLDLLTW
6168	14219	A	693	3	389	DAWWDFPFRFLFLKLTGKTMAVDLEPN DTIANAKA*IQDKCEGIPPDQQLRIFAGKQ LENGRFLPDYIHKESTLLLVLRLKGGMQ IFVKTLLA*TISLQAEPSDTHINV*EKIQD KESIPPDDQHTVIL
6169	14220	A	6930	2	94	WRDLDGSL *PPPPGFKRFS*LSLKSHPNVT S
6170	14221	A	6931	130	295	GIISNADFVSFFFF*DGVFALVAQAGVQ WRGLGSLQPLPGFKRFSCLSLPSTW
6171	14222	A	6932	3	403	TYKILDIFIVNSIRHRGTPEFGHTEVITS MTLDFIGAG*/SNLQ*PAST*PGDQY*#L LQST*NYVLHFKQLPTWKGRSEISEQAV SAKEKT*KS/*LALVK*ARTLESNWPG/L *ILILISLSCMIWINDSNLNF
6172	14223	C	6933	78	335	MWSPLTKEIFSCPTPQTGCAFKGTLKRA PXXXXXXVXIGXXXXXXXXXXXXXX XVSPrPLSARVLAPCLGCDFFVSFNRTTV WK*
6173	14224	A	6934	1	143	
6174	14225	A	6935	1	1676	
6175	14226	A	6936	1	161	
6176	14227	A	6937	61	742	
6177	14228	A	6938	7	238	
6178	14229	A	6939	1	213	

6179	14230	C	694	70	225	MNIQYI0HESVYQNVRPSQRESTGRWSH CCPSQGRSRRIPTVVEIQQHGV*
6180	14231	A	6940	1	257	
6181	14232	A	6941	3	279	GSGWDGRGQSGRVADSS*ARVL SALARE VNKA RLQDLRSCLSPKPPQGQEQQGQED EVVL VEGPTLPETPRLFPFLKIRCRADLVR LPLRMVSA
6182	14233	A	6942	73	816	
6183	14234	A	6943	1	484	
6184	14235	A	6944	1	1758	
6185	14236	A	6945	1	1420	
6186	14237	A	6946	186	209	QLWPN*LLSRNKEATLRYSLPCTCHSICV *MPAF*HTISDLSFNKNINCKSYHLRVFY KVY*IVCHF*VPKVYWTWKYYQTCSR*W R*SGVE*PPHSSSSACCLLRLPTEGTCP EJFWNPRGLGISAECRDSCGPTSF
6187	14238	A	6947	2	2948	
6188	14239	A	6948	1	616	
6189	14240	A	6949	1	1913	
6190	14241	A	695	277	396	EAP*HPDFIKNMITGTS*ADCAGLIVAAG GGVFKSWDLQK
6191	14242	A	6950	3	185	
6192	14243	A	6951	112	569	
6193	14244	A	6952	1	1210	
6194	14245	A	6953	75	333	
6195	14246	A	6954	271	512	GAVGPRPRSOKSIGVPGWVSPGF*EGKG RRMTFVLLKHIMLLFPARFQQIMRNIPR LAEMHQQLFSSCPSLMRAFEVT
6196	14247	A	6955	2	184	
6197	14248	A	6956	13	163	
6198	14249	A	6957	627	847	
6199	14250	A	6958	3	144	
6200	14251	A	6959	1	2008	PAAADARRPRSAPATMRPKAFILLILL GLVQLLAVAGAEGPDDEDSSNRENAIDE EEEEEEDEDDDEEEDLEVKEENGVLVLD ANFDNFVADKDVTLEFAYPWCGHKCQ FAPEYELANILKDKDPPPIPVAIDATASAS VLA SRF DVG YPTIKLKKGGQA VDYE GS RTQEEIVAKVREVSQDWP T PPEVTLVL I KEN FDEV NDA DIL LVEF YAP WCG HK K LAPEY EKA KEL SKR SPPI PLAK VD AT A ET DL A KR FD VS G Y PT LK I FR K GR PY DY N G PRE KY GIV D YMIE Q SG PSK E ILT LK Q V Q EFL K LD G D DV II G VF K GE SD PA Y QQ Y Q DA AN NL R ED Y K F H T F ST EL A K PL KV S Q GO LV VM Q PEK FOS K VEP R SH MM DV Q G ST Q D S A K D F V L K Y AL P L V G H R K V S N D A K R Y T R R P L V V V Y Y S V D F S F D Y R A AT Q F W R S K V L E V A K D P E Y T F A I A D E D Y A G E V K D L G L S E S G E D V N A A I D E S G K K F A M P E E F D S D T L R E V L T A F K K G K L P V I K S Q P V P K N N K G P V K V V V G R T F D S I V M D P K K U D V L I E F Y A P W C G H K Q L E P / V Y N S L A K K Y K G Q K G L V I A K M E A P / A N D V P Q R P A I R V E G F P T M Y F R P P V G D K K D P S / V K F E G G D W R D L E P F E P S F I E H A T K L S R T K E E L S O N F W R P M W A D H L R L G V R D Q H G Q I G E T P S L L K I Q K L A G H G G R L * S Q L V R K L R
6201	14252	A	696	549	707	
6202	14253	B	6960	137	214	ASQFPIEWRPVKDAATVDSEPALPQQ*

6203	14254 A	6961	I	625	PSLKQKQLELHRGAAALELVDPPGCRSG LVHARGCTYSQLWSRSHPFCCSRGPILA MAGLFEDJFDVKDIDRKAKKFDRVSRL HCESESFKMDLILDVTQIYPVDFLDGDKFR LVIASTLYEDGILLDGEYNPTDDRPSRA DOFEVVMYQKVYRIEGDIESTEATRA LSAVYSYGGLLWMLRLQGDANNLHGFEV DSRVYLLMKLAF
6204	14255 A	6962	I	273	
6205	14256 A	6963	I	233	
6206	14257 C	6964	I	449	
6207	14258 A	6965	I	1278	
6208	14259 A	6966	I	325	
6209	14260 A	6967	525	661	TEILSGSLGESEIFTTSES*RPGLGPSEVIFL SSSVCLNIFFRVLT
6210	14261 A	6968	I	293	MAGTPPPALLPPCSLISDCANNQRDSV GVGVPSEPAGYNYLVRFLSPSEKRSVR VGVTIRLFQGRFSPSLTQKGPNLTPCAS QFTISTISDGRIMV
6211	14262 A	6969	I	1372	
6212	14263 A	697	82	417	AFOQEMELKRPOEEDVAALPEGMRPHSN LYGFWSVE*VICAAVVGLFAAFLWRSF RIVRIRIHVGREKRLALMLSGLNQ*KSEL LGHCILAQNEYDGYELDE*FVDLRVDKE
6213	14264 A	6970	2	277	KNEMTLDAYFLADMAAYQOEEQMQLP RADAIERSLIDTFSLIEHLQGLSQVPRH TIARELLGQQPISSLI*DSYPHPLHRLVEN SGEV
6214	14265 A	6971	434	563	ETTYNEQRGPQPHLPEVKKKYRGNAEA KTKL*LPENWKGDIL
6215	14266 A	6972	197	1247	ALVRLDSWMGLNTTANLGGGMTEMAR GVTPWICPRSSAERARSQIPAAVPMVISVK ISGPOLLIGNPNGSTKRWARNSSCSSEH CR/SQGAQEEQESCLAQH/T/PSAPSQMT*I PNC*CAGAPLAAVHRGJTQRQCQNMNEVQ VAHAMPTL*ETGDHNAELSGAPAIYL QGAQHSPVH*DQLI*FPS*TY*EPFKLQ DLLRTKSPGGTPOLFCFAH/ALPAVPOAQ VLGLLQIMSGSPQSRLRAPSLQSGLQTPLL GMSLVHLNLQAQVLEDPQQLVAPP/T/D YQGFLGSKLWLPTQLSNVCSAPSSAAF LEAAPGLSDRPPGFPVPSLPGPBGGS VPAAALELFAPAPPT
6216	14267 A	6973	232	476	IFVSSYYHVNLFFRF*AHSSH*TNPQD LYPYQHGNNKVKDIPGTLPENRKVG*PL KKLDQDENKQDKPSCHLQGQLQWP
6217	14268 A	6974	442	698	
6218	14269 B	6975	546	1820	LLNCPLFCYGLTSVLHVTCFFSHHGYY DTSKDNGAKQQPKDEIDAEDATDFRH LPDVLKQCIPMIQASQPADSAVPTASGK VYGTPETELTYPTNIEAAPLAEEEHASSA TSITECDKLSFATSAVAEDQSVASLTAQ TEETGKSSLLLDVTSPSSRTEATQGLD YVPSAEDKGFKSPPCEDFSVTGESEKRG EIKGKGLSGERAEEEEEETAHVEMSEKL CSQYGTIVFSAPGHALHPGEPALGEAEE RRLSPDDSTVKMASPAPSPSGTHTPFH ESPWEEKSEQPQDFQEADSWGDIQORTTSV GKRKAEEELRCLVTRGRSIRGLSLPACT RAEBRREVERVVVDALSGLKGDLAGRYY RSEMITEAEQQQLDDHFLFD/KPVSPLL AAGMARDWPDARGIWHNNNEKSFLIWV N*
6219	14270 A	6976	2	480	
6220	14271 A	6977	I	2043	
6221	14272 A	6978	1259	1497	

6222	14273	A	6979	2	425	
6223	14274	A	698	751	1063	FYQDKRRHOPGIVAAACNPGRSRQEIDL RS*VGDQPGHQHSESPSMQK1*KLAGHGG AHV*S*LLRPRPDRDNPLSPQQGCGSVL*S HHCTPAWATQGDPGSKSKN
6224	14275	B	6980	259	329	XFRKKEQQIKQCCKTAGQALIKE*
6225	14276	A	6981	1	1251	
6226	14277	A	6982	1	421	
6227	14278	C	6983	120	371	MSAHSHPCTCINGHTPVSIYXXXXXXGG PFKRTLGGPKFNGGGQKIFFFMGLFLK PSLGFLEKKNLFXXXXTYGATPPPKFKP*
6228	14279	A	6984	76	251	ALKFCRGVFPFSPPPQKKFLFQNNSPGGFFF PPLKEKNFSFPPP*KSSSPPKPLNFVGFFF FPPPPVKPQGPQQSF*TPPP
6229	14280	C	6985	193	315	MGGQLKPKSLGFLFKNLFFGGEKNGHXX XXKFKPLGXXXXF*
6230	14281	C	6986	363	413	
6231	14282	A	6987	1	1088	
6232	14283	A	6988	64	1279	LAPGAVGKGGRGHTLPCSAARMGVKAS QTGFVFLVLQLCCSAYKLVCYYTWSQ YREGDGSCFPDALDRFLCTHIYSFANIS NDHIDTWEWNVTLYGMNLNTLKNRNP NLKJLLSVGGWNFGSQRFKSIASTNTQR RTFIKSVPFFLRTHGFDGLDLAWLYPGR RDKQHFTTLIKEMAEPIKEAQPGKQL LLSALSAGKVTDSSYDIAKISQHLDIFIS IMTYDFHGAWRGITGHHSPLFRQEDA SPDRFSNTDYAVGYMLRLGRAPASKLVM GIFTGRSFTLASSETGVGAPISGPVGPGR FTKEAGTLAYYEICDFLRGATVHRTLQQ QVPYATKGNQWVGVDQESVKSKVQY LKDROLAGAMVWALDLDDFQGSFCGQ DLRFLUTNAIKDALAAT
6233	14284	A	6989	3	174	
6234	14285	A	699	3	17	
6235	14286	C	6990	116	181	MCSTSRSRFTNLKSCNLLKY*
6236	14287	A	6991	20	111	
6237	14288	A	6992	120	426	
6238	14289	A	6993	2	112	
6239	14290	A	6994	24	316	FLFLFFETECSVAVLECSGAISAHCKLC LPGSRHSRSPASSQVAGSTGACHQA/QA NFVFVFLVETGFYRVSPG*SG/LSLELVIR PPRPPKVLGLQV
6240	14291	A	6995	80	326	
6241	14292	A	6996	1	233	
6242	14293	A	6997	1941	2223	RTPRMKQSPAPIPCOPTTCGCMASRAT RTGWTSTVCAYCRLFRHA/CPVVALPE MVRALSAQQQTLKQIVICGDRQAKDTK ALGAVRPLCLHS
6243	14294	A	6998	211	544	
6244	14295	A	6999	31	230	
6245	14296	A	7	46	1069	ESKHGNFFWWVIEFLCYCTKEERTQLQKQK TDEYFRMKLQLWKSIQSQEKRNSRLRD YRSLLIEKDVNRTDRTRNKFYEGQDNPGLI LLHDILMLTYCMYDFDGYVQGMSDUFFS PFLVVMENEVDWFWCFAFYAMDQMHQN FEBQMGMKTQIQLSTLLRLLDGFCFS YLESQDSGYLYFCFWLLLRKFREPSFLD ILRLWEWMWTELPCTNFHILLCCAIELSE EQQIMKEHYGFNEILKHINELSMKIDVE DILCKAEASLQMVKCKELPQAQVCEILGL QGSAVTTPSDVGV*RTKMLVNDFLGPT VCISKVTAUTLSASGARNDSPTQIPVSS RCLQD

6246	14297A	70	170	340	TDSALGSPCLHPTALCAVCGTA*SST/QL VALALMRLELILKSSVPAMAGIITIYNL
6247	14298A	700	3	443	
6248	14299A	7000	1	861	
6249	14300A	7001	55	406	
6250	14301A	7002	1	361	
6251	14302A	7003	1	1725	
6252	14303A	7004	1	1271	
6253	14304A	7005	3	329	LIKLKCKSAKSCENDLEMGMILNSKFKKT RYQAGMRNSENLTANNTLSKPTRY/QGE LKEIKQDISSRLYELLEEKSQATGELADLI QLSEKFGKNLNKDHLRVNKGKD
6254	14305A	7006	1	801	
6255	14306A	7007	21	373	
6256	14307A	7008	3	63	
6257	14308A	701	147	437	WYVVKKERKKERKQERKKERKKERKKE RKKRKRERKKER*RRERERGRKEGRKE GRKEGRKEGRKEGRKGGRREGREKERE RKKEREISREYDESK
6258	14309A	7012	1	521	MSSKRTKTKRKRPRORATSNVFAMFEDQ SQIQEFKEAPNMIDQNQRDGFDIKEHD MLASLGKNPITDEYL DAMMNEAVGPINF POWFSPMLVRSNAPDPUENVRNAFAFC DIEAPGPIQEDYLRELLPTMDRFTNEE VDELHREAPIDKKGNFNYIGFTRILEHG AKDKDD
6259	14310A	7013	106	693	TTTMSSSKKAKTTKCRP*ORATSNVFA MFQDSQIQEFKEAPNMIDQNQRDGFDIKE DLHDMLASLGKNPITDAYL DAMMNEAV PGPINSTMFLTMFGUEKFKSHRSPEVDI/ RANGLCFCSDDEA1GHFPQED/YTLRELL TNPWGDURFPDGGWWMNLYQQRKHLLGP KKGEGFSYIVGHHILTGRPKHKDDLK ELLA
6260	14311A	7014	78	188	
6261	14312A	7015	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6262	14313A	7016	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6263	14314A	7017	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6264	14315A	7018	2	93	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6265	14316A	7019	2	94	GGSCL*SQHFGRPRWADHEVRRSRPSWL TR
6266	14317A	702	505	637	CLLNSIYRRHQGR*DGKERKKDRKKE RKKERKKERKKERKKERKKE
6267	14318A	7020	1	418	RRLRTAMKLRSHRPDQTWHDQQYNKA HLGAALQANPLGAAAHAKIVLEKVRV EATQPKSIAIMK/CVRVQLKNGKKITAF VPNDGCLNFIEENDEVLVAGFGRKGHAV GDIPGVRFKVVKVANVFLALYKGKKER PRS
6268	14319A	7021	2159	2334	SATNYRNLTVELEGNSTHRHSHTNST* KNCTRPQTSQLNK*VKKHQSHICQNSCP F
6269	14320A	7022	1748	1821	
6270	14321A	7023	2179	2485	
6271	14322A	7024	3	502	TARA WLLLGPVWPVCV SERWSKKPSPRG GRDPFSDRDPAAFAARSTVPPRISA YERPV PWPGEWNDPFRGPGRASAVSPREGNW GVL RDPRQLQARKPRMVRSRQMCNTNMS VPTD/GCCCNHLDSTSSFGTRDPG*TKAIAF EVIKVCWC TKRHL YYERGSFLSWPVYY D
6272	14323A	7025	89	291	

6273	14324	A	7026	1295	1429	
6274	14325	C	7027	332	763	MTGCLNFIEENDEVLVAWIWSQKVMLLVIFLESXFVKVQSPFMVSSLALYKWLYGETKINNMNGENTVVINFHMPKNCVLLSPVLTTKIMPTTTTPPYFFYKPKVNAGPVPILGNNKTGLFQDSLEITFTVTHSFPHPV*
6275	14326	A	7028	89	184	
6276	14327	A	7029	2	274	LDDDKS1KIVKKKLTLGFPYKIFKNNTSF/KD1VFMRTWYPVSIAPYNPVTSLLKP/VGEKDTWSGMWITTGHGL/AHGVRLTKN/KDSLVKGLV
6277	14328	A	703	220	476	HNSLUVVYYFEIWSRILFVYSCS1HTSVTH*SLLSLGHHLKYIWAGHGVSH*FOHIGRPRWENHLRPG*DQPGOHSETPSLJ.LKK
6278	14329	A	7030	178	619	PRRHVQLNHAEFEDQDDEARVQYEGFRPGMYVCVEJENVPCEF/*NFDPRYPIILGLGNSEGNGVGVYQ/PIPTPQGTGFLAIQSVSGIMPDFRIAATGVVLLDKS1KIVKKKLTLGFPYKIFKNNTSF/KGMFNSALEVKFEGAVIRTISGIRGQIKKAL*APEGAFRASFEDKLL
6279	14330	A	7031	159	484	DPTPQGTGFLAIQSVSGIMPDFRIAATGVVLLDKS1KIVKKKLTLGFPYKIFKNNTSF/KGMFNSALEVKFEGAVIRTISGIRGQIKKAL*APEGAFRASFEDKLL
6280	14331	A	7032	19	3881	IATMEAKDQKKHRKKKNNSGPKAACKKKRLQLDLQLGDEEDARKRNPKAFAVQSARMAFLSFRHTQDLKTKKHHIPVDRTEPLEPPIVVVVMGPKVGKSTLIOCLIRNRTRQKLTERGPVTIVSGKKRRLTHECCGCDNMIDLAKVADLVMLIDASFGFEMETEFLNICOVHGFPKIMGVLTHLDSFKHNHQLKTTKRLKHRFWTEVYPGAKLFYLSGMVHGEYQNQEIHNLGRFTVMKFRPLTWQT
6281	14332	A	7033	182	374	
6282	14333	A	7034	2	198	
6283	14334	A	7035	1	457	
6284	14335	A	7036	2	145	
6285	14336	A	7037	55	193	
6286	14337	A	7038	564	882	
6287	14338	A	7039	257	513	KFFSFLSSACCLEQVLFCAVLFVLFVFLLLIFSPFFFSFSFSSFFFSSSSSSSSSSSSFFFLRWS/PRSAQAGVQ/WS*FGSLQQ
6288	14339	A	704	1	554	DLNHLLFFCFVIRQQSFLFFPPSFFFHFFIAMLHQSYVIFLSVYTIVIILDFY1S1FLT*YD1MFTKINT*AKLLIYENML1VL*CSAFLSNYTFLIVQHASLIHSSTK*ISQCANIIKI*ILH*L*SSVEINSYL*FCYLVYSAIILELVLLQSOFSYMYI1R1IQLDFLNEEMHI
6289	14340	A	7040	936	1317	ILVHGCFCICWWYCLSMYFFFNFPEMESRSAQAGVQWCADLCSLQAPPAGFTPFSCLSLPSSWDYRHPPRPLAKFFVFLVETGAFHRVSQDGLLLTSGDPPTSASQSAGITGVSHRARPLKHLS
6290	14341	A	7041	1	1218	

6291	14342 A	7042	1	1169	MAPPSPSTTSNNNNSSSSNSGWDQLSKT NL YIRGLPPHTTDQDLVKLCPYGVKIVST KAILDKTTNKCKGYGFVDFDSPAANAAQK AVSALKASGVQAOMAKQQEQDPTNLYI SNLPLSMDEQELEMJLKPGOVISTRILR DSSSGTSRGVGFARMESTEKCEAVIGHEN GKFKTPGPVSAPTEPLLCKFADGGQQKK RQNPNKYIPNGRPWHRGEVRLAGMTL TYDPTTAIAIQNGFPSPSYIATNRMITQT SITPYIASPVSAVQAKETRENKYRGSAI KVQSPSWMOPQPYLHDPGAVLTPSMEH TMSLOPASMISPLAQQMHSLSLGSTGTY MPATSAMQGAYLPQYAHMQTTAVPVE EASGQQQVAVETSNDHSPYTFQPNK
6292	14343 A	7043	1	743	
6293	14344 A	7044	2	171	
6294	14345 A	7045	1	350	
6295	14346 A	7046	2	1685	
6296	14347 A	7047	47	218	
6297	14348 A	7048	3	1716	GRCCCFSPDGKALAVGLNDSFLMANA DTLEDLVSFHHRKDMISDIRFSPGIVWPVI GEVTDVDTSCLTSKDMVLATGDDLGFG KLFLYPTKASSEQOPTTARETPDKQCRQ EKETYRATAPSIIHWADMKNTLSILRC YHSKGVCVSVFSATGKLLSVELGDPHEITI TIWRWQEGAKIASRAGHNQRFVAEFRP DSDTOFVSVGVKHVFKWTLAGRALLSK KGLLSTLEDARMQTMALIAAFGAGKJLVG TRNAEIEVGEKNAACNLVNVGHVDGPI WGLATHERSRDFFLSAAEDGTVRWLWDIAD KXMLNKVNVLGHAARTVCYSPEDDMVAI GMKNGEFIIILVSSLKWIWKGRDRRCAIH DIRFSPDSRYLAVGSSENSVDFYDLTLGP TLNRIISYCKDIPSFVIQMDFSADSSYLVQ SSGCYKRHVYEVPSGKHLMGSSAIDRIT WATWTSLGDEVLGJWRSRHAEKADVNC ACVSHSGISLVTGDDFGMVKLFDFFCPCE KFAKHKRFLGHSPHVTNIRFTSGDRHV SAGGDDCRLVTFTAHEEQTMLLVKRLN TTTPTALVYEIS
6298	14349 A	7049	1	5853	
6299	14350 A	705	1039	1560	SLVLDLTGLPRPTSFSHERGLDSSSSPG LSTGP*ECPDPNPMCPKVLPGPDQRCW NSHSTAPIAFFPEPVRSR*GGSWTPVPAIG ATLNPRCQRGLAIPNSLVSSP*GPAGWRE LPSSQOAHPHPK*R GALRSEN RQEGPDQ GCGNCFVKYGGRVGRVGYSGPVRTCOS RASN
6300	14351 A	7050	1	426	LKQQNEEQRVQVOVVERAQQVAVQOEI ARAAEAEQMAKKAEE/AFOLYQEAAOLDM LLEKLPQVAEEISGPLTSANKITLVSSGS GTMGAAKVTGEVLIDLTRLP/ESVERLT GWVILPRLNHKA*RTALSQPSQMPSLI AE
6301	14352 A	7051	162	1449	
6302	14353 A	7052	57	389	

6303	14354	A	7053	162	1581	TMFFTCGPNEAMVVSQFCRSPPVMVAG GRVFVLPICQIQIQRISLNTL'LNVKSEKV YTRHGVPISTGIAQVKIQGQNKEMLAA ACQMFGLGEAEIAHIALETEHGQRAI MAHIMTVEEYKDRQKFSSEQVFKVASSD LNVNGISVSVSTLKDIIHDDQDYLHSLSGK ARTAOVQKDARIGEAEEAKRDAGIREAK AKOEKVSAYLSEIEMAKAQRDYELKK AAVDIEVNTRRAQADLAQQLQVAKTKQ QIEEQRVQVQVVERAQQVAVQFQEIAARR EKELEARVRNPAAEVAERYKLERPAEAEKS QLIMQAEEAKVAASVRMGRGEAEGLCP*GP EPRAEAEQMAKKAEAFQLVPRGVAQL DMLRRRESPRWOEESGPNLFNSPIRSPPLV SSGSSTMGAALKVTGEVLIDLNSPCPES VERLTTGREHLPRVNRKPLKNSLEPSAL HRCPASLAEVALNDPPVACNPLGLPEHV H
6304	14355	A	7054	1	327	
6305	14356	A	7055	1	202	
6306	14357	A	7056	1	493	
6307	14358	A	7057	409	521	
6308	14359	A	7058	296	869	
6309	14360	A	7059	1	848	MPGLRVKMPGPGISQDEAVWSMDDNF EVNKQHPWVRAATLAKDCKNQSQAQV TVYNKPASFKEAPLDLQHRLFMKLGST HSPFRARVFFCFSFISEPEDPATRLAFTER DAGSLVTLIHERPALLVSTSWTKGKP LREYYSLRIYQKHFQHQVCTFWLGAED YPLLIGSADLGVCLHTSSISGLDLPL* VDMFGCCLPVCAVNFKVFTELVKHEEN GLVLFEDSEELAAQQLQMLFSNFPDPAGKL NSFRKNLPE\$QQL* WDES WVQTVLPLV MDT
6310	14361	A	706	644	930	EOSHGLGVVVAHACNPSTLGNRCGVDH SSVGQOGPQHQHKTPFLQKQIKLAGHG GTR*SSYRLRWDEDEGRGCSEPRSRH CTPAPWATE*DPV
6311	14362	A	7060	738	1902	FHHLTETNSPNYFITMALNVAPVRDTKW LTLEVRQRFORGTCSRSDDEECKFAHPKK SCQVENGRIVIACFDLSKGRCRSRENCKYL HPTTHLKTQLEINGRNNLJQQKTAAML AQQMOMFMPFGTIPLIPVPTPFPVGPAGITN TAISAPYALPVTGPVGLVPTEILPTPTPV VPGSPPTVPGSTATOKLLRTDKLEVCR EFQRGNCARGETIDCRFAHFPADSTMIDS DNTVTVCMDYIKGRCMREKCKYFHPPA HLQAKIKAQ/P/QAATVMTQSTAKAM KRPLEATVDLAPPAGALHPLPKRQALEK SNGTSAVFNPNSVLYHQQALTSQAOLQOH AAFPTGSQLCMTPATSIVPMMHISATSAT VSAATTTPATSVFAATATANQUILK
6312	14363	A	7061	1	240	
6313	14364	A	7062	3	354	
6314	14365	A	7063	1	621	
6315	14366	A	7064	362	720	
6316	14367	A	7065	1	2610	
6317	14368	A	7066	122	1840	
6318	14369	A	7067	1	1433	
6319	14370	A	7068	3	324	
6320	14371	A	7069	3	421	
6321	14372	C	707	185	397	
6322	14373	A	7070	3	552	
6323	14374	A	7071	3	600	
6324	14375	A	7072	3	550	
6325	14376	A	7073	1	102	

6326	14377	A	7074	3	1451	GAVRTWGRGFQTEKCOASLNLFWNPPT TAQVTEAEPPTKVSKGKDVLILLVHNLPQ NLAGYIWYKGQMDLYHYHITSYVVDGQ IIYGPAYSGRETVYSNASLIJQNVTREDA GSYTLHVKRGDGTRGETGHFTFLYRH SLSALSLEVTGSSQL*DTWENCPILW LHCLMLTELTSGDLSVLPVCISAEVPSRSPS GPVSSGFKDNWKFIIHPSLGCWPWQGKL QRKHTSGGKVRLKLRLFOHCMLQVRRT SWEIPKPSISSLNLYPREDMEAUSLTCDPE TPDASYLWWMNGSQLPMTHSLOLSKNK RTIJLFGVTKYTAQPYCECERNPVSASRS DPVTLLNLLPKLPKPYTITNNLNPRENKDV LAFTCEPKSENYTYIWYWLNGOSLPSVSPR VKRPPIENRJLPSVTRNETGPYQCEIQDR YGGIRSYVPVTLNVLYTTKHSGLYACSVR NSATGMSSKSMTVKVSAPSGTGHLPGL NPL
6327	14378	A	7075	3	435	
6328	14379	A	7076	79	1516	
6329	14380	A	7077	9970	11210	MKDACGGIKGATQDNLLSTQ/PKLMP YTINNLNPREKKDVLIAFTCEPKSRNRYTY IWNLNGQSLPVSPRVKRPIENRLLLPSPV RNETGPYQCEIEIDRYYGGIRSNPVTLNVL CEYPLFLCGPGHOLNSKRPPEARPLSLSPV QV*TLLLDIRPHDSI.PWEILGRHSLNQ EYKGRGALVMGH*GPTACERNNRGQPO AWA**T*MGFGCHLRLCIGSEGHCVPLR DQEHPPLDIDTCGFILFFPDGPDLPRYIP SFTYRSGENLDLSCFADSNPAAEYSWTI NGKFQLSGQKLFIPOQTINHNSGLYACSVR NSATGKEISKSMEVKGKWIPLASLAIGF *VESIWLSEKSQENICIPRLCPMGTSKSI LLNPPNLSLQTLFCFLFCPLMADLVSGL RKVGRGLYQP
6330	14381	A	7078	460	1832	QPVLFRLPDLRISTEENTOAAETMGTLS APPCTORIKWKGLLTTASLNLFWNLPLTT AQVTEAEPPTKVSECKDVLILLVHNLPQ LTRATIYWKGQMRHLHYHYITSYVVDG EIIYGPAYSGRETAYSNASLIJQNVTRE DIAGSYTLHIIKVRGDTRGVGYGIFTNL LETPKPSISSLNLPREAMETVLTCPET PDAISYLW*LNQONJLPMTHSLOLSKAN RTLTYLFGVTNTYTAGPYCECEIWEI.RECO ARSDPVTFEFSSRKLKPYPYTINNNLPGEES *GCL*TFIGCEPKSENYTYIWNLNGQKPP VSSPRVKRFH*KTGSJLPTVFTRKWKQG PYSMWNYGDRYGGIRSLPSSPLNCSSYG SRTSPRI.PFHFTYYFRFEENLDFLGET GIFNPPAQYSWDN*WKSFQLTRGQKLF YSGHITTTHKHSGLYVCVRNSATWQGKA PNP
6331	14382	A	7079	2	315	RWSLCPLQAGVQWRDLCSLKPPPFKQ FSCLSLPSS*DYRCPPPANF/SFFFVFLV ETGFHIVVGQAGLNLTSRDLTSASQSA EITGMSHCPRTLSNSRVL
6332	14383	A	708	3	521	CKMDAGFFRGTSAEQDNRVSNKQK'KL LKQKPAECLEKKVDMSKVNLEVIKP,W ITKRVTEIELGFEDDVIEIFIQNQLEVKA*T KMEVIPCV*SIAPSPY*VTAE*VSPQCRSDP TPLMMOCVFGNPDSKMMQINLTGFLING KNAREFMGEI,WPLLJLQAQENIAGIPS AFL EL
6333	14384	A	7080	1	534	
6334	14385	A	7081	1217	1545	

6335	14386	A	7082	2	1665KKKKKOKNKKSSSTGEASENGLEDDIDRIL ERIEDSTGLNRPGPAPLSSRKHVLYVEIRH HLNPDTELKRYFGARAILGEQPRQRQR VYPKCTWLTPKSTWPYRSKPGLSMRLL ESKKGLSFPFAFEHSEFYQQAQHKFLVAV ESMEPNVNIVVLLQTSPYHVDSLQLSDA CRFQEDQEMARDLVERALYSMCEAFHP LFSLTSGACRCLDVRPENRSFYLALYKQ MSFLERKGCPRTALEYCKLILSLEPDIEDP LCMLLLIDHHLALRARNYEYLRLFQEWE AHRNLSQLPNFAFSVPLAYFLSQSQDILP ECEQSSARQKASLLIQQAALTMFGVLLPL LESCSVRDPASVSSHRFGPNAEISQPPA LSQLVNLYLGRSHFLWKEPATMSWLEE NVHEVLQAVDAGDOPAVEACENRRKVLY QRAPRNIIHRHVILSEIKEAVAALPPDVTT QSVMGFDPLAUPSDTIVSYVRPERLKSLS SHRGNTVALFERSLLPNYTMEGERPREG VAGGLNRNQGLNRLMLA VRUDMMANF HLDNDLEAPHEDDAEGEGEWD
6336	14387	A	7083	420	627
6337	14388	A	7084	2	380
6338	14389	A	7085	2	657
6339	14390	A	7086	2	842
6340	14391	A	7087	174	463GSLKQGMFPSSGLNRRRLPTESPLQILRATF L*KEVA*GLHQYHPLQLISGPVFGLTH LQSAVPFREKPDPPPELPSLRVLRRRTLDS WGARTHNYGI
6341	14392	A	7088	69	194
6342	14393	A	7089	1348	2204TWRLDPQIISSPKPQPGGYTLEVVKSSK SKKVLSPHP*WPPRLWLWQR/GGSPEGGT QADPGSLPFFFFPRPKSERVGSPKLGSQKR /EGSHPGGPHHTHP/DGEEKAKSSWFGL REAKDPTOKPSPHPVKPLSAAPVEGSPD RKQSPSSLISLASSGLEKLKTVTSGSIQPV TQAPQAGQMVDTRKLKDSA VLDQSAK YYHLTDEELISLLQRERELSQLRDEHVQ ELESYIDRLLVRIMETSPILLQIPPGPKP
6343	14394	A	709	730	983GAVAHICKSQOFGRPROAHQLRSRV*DQ PGQNDDETSPSILKQKLAGHGHTRPLSQL RRLRH*NHLNPGGGCCSELRSRHCIPG
6344	14395	A	7090	2	762
6345	14396	A	7091	2	218
6346	14397	A	7092	7	78
6347	14398	A	7093	553	954SRSRRGQKRRRWSTVWRILSAGACALSM QTPSRSTS WPTAPFRAIWRAETVAAWCRL RRPVWRVWSWSSLPTPITRATPLGARS WPGWWRMWPPLQAGSAVPLIL*RPFLKF PLPRPVPGRRPSGAQSHREOCLQT

6348	14399	A	7094	1	1215 MTLKEHAAFKHLFNKAHLAPPLIHLTLS GHSTCPRFHVVGDIVHRLDKLENIMVKS SLIDDNNEINLNKVTDFGLAVKQKSRE AMLQATCGTIPYMDRGWNSLEGSEQDR KMWDSLELPRDLNVEQNAQNDNMD EIQAEVLSDGDEELLGNWSKGDSCYVLL KQLAAFCPCPDLWNFKLERDLDLGYLV EISKQQSIQEATWVLLKAFAFSIREAIIK NLENQPDNAIEKKIPFSEEKFKLAAEICI SNQEANVNPODNEKNVSACQCRSSQQP LPLPRVLLGKSGFGVWQAQDSHAEIYTFG RILGKGSFGIVIEATDKETETKWAJKV KEKULLMKSNSFLQPVRTTLCAVQVSHL ANSFOLKSREKWRKP*LKEHAAFKHLF NKAHLAPPLIHLTLSGHSTCPRFHVVGD VIRDLKLENIMVSSLIDDNNEINLNK TDGLAVKKQSRSEAMILQATCGTIPY DRGWNSLEGSEQDRKMWDSLELPRDL NFEQNAQNDNMDDEQAEVLSGDGEEL LGNWSKGDSCYVLLKOLAACPCLRDL WNFKLERDDLGYLVEEISKQQSIQEATW VLLKAFAFSIREAIIKHNLENLQPDNAIEKK IPFSEEKFKLAAEICISNQEANVNPODNE KNVSACQCRSSQQLPLPRVLLGKGSFGV GWQAQDSHAEIYTFGRILGKGSFGIVIEAT DKEETETWAIKKVNKEKSTAYEKQFPAT SKDNFDMCSSTSFLPAEIKGEMEKT PVTPSQGTATKYPAKSGALSRTKKKL
6349	14400	A	7095	1	770
6350	14401	A	7096	7265	7684 IVSLFLFILLVFWWWCFFFFFFTVLIFS PRLOCRDVTSAHCNCFCPGSSDSRASAF RVARITGAHHDTWLIFCIFSRRVLSWCWS GWRSRTSDLR*SALPKCWVDYRCEPPCRA* FFFPLYPLTIPTSLPAHYPPSLW
6351	14402	A	7097	1	344
6352	14403	A	7098	3	285
6353	14404	A	7099	346	517
6354	14405	A	71	134	450 QSPDSMNAREFRRRGMMEMVDYVAYYM EGIEGLLYVVDV*PGYLRALIPAAPPH*L DTCEDISDAEJKIMPGLSHWHPDLEFVY FDSSSYARMLEDMOCGALDC
6355	14406	A	710	108	418 GWGGILLIARPPFKRGKSSGPVGHLKRG VGGRRG*NVNLCPKSSNPQGGGERPRE LRDKATVSALANFTARKGC*LRGPEEGQ PGPRGKLFPKGVPGVQGP
6356	14407	A	7100	3	173
6357	14408	A	7101	256	352
6358	14409	A	7102	1	203
6359	14410	A	7103	1	112
6360	14411	A	7104	1	1213
6361	14412	A	7105	3	413
6362	14413	A	7106	45	537
6363	14414	A	7107	2	224
6364	14415	A	7108	179	393 DKWRRRLPWKRKGVEVGTAGSLAKAFGFF AEAKTEPREGCESSEGVRIYSQ*VQQTNS KCLKY*MEPARTFSP
6365	14416	C	7109	21	410
6366	14417	A	711	274	394 SPPKEVGGKFLNLGGQRFWGPKGFL FSAKTTKKGTSFLK*GFKNPPAQGGKPPFF LKIQN*PTLGGGPLNPHFLRLRGGENF*T SEGKGFDPNLALCSPPKQKKGLLF
6367	14418	A	7110	3	178
6368	14419	C	7111	134	295 MNSVPGLAKSVDLRLTRYDSPKQPLLC EAVVLLICKDLRSRWQKPGTOQIGG**
6369	14420	A	7112	3	864

6370	14421A	7113	3	155	
6371	14422A	7114	1	122	
6372	14423A	7115	84	579	NWKAGMGRPSTADYAMFKVHVEDVK YRFTAYFAGGDAEADAFDGYDFGDDPS DEKFTSHNGMQFSTWNDNDKFGENG AEQDGSGWWNMNKCHAGHLNGVYYQG GTYSKASTPNGYDNGHAWATWKTRWYS MKKTTMKIIIPFNRLTIGEGIQQFHLLGA KQAGDV
6373	14424A	7116	19	418	VEMGFCQADQAGLELLTSGDPASVSQS TGITVLSLSFFFETRSVAQAGVQWRDL GSLQRPPPGSRHSVASRVAAGTTGARR HAWLFLYF/LVETGHFRVSQDGLDLTS *SARLSPLPKCWGYRREPSAR
6374	14425C	7117	207	401	MGXIXPLXKTPFFPGVGKNSFPGP GXPXPXRGGPPPLFFFQKKGXXPPPPP KVLGLQA*
6375	14426A	7118	2	681	FFEMESRSVAQAGVQWRDLGLSQAPP GTFPFSCSLSPRSWDYRPPTLANFFVF LVETGFHCVSQDSLDLTLRSARLFFF ETESRSVAQAGVQWRALGSLQAPPNGS RHSPASASQVAGTTGARHYARLIFVFLV ETGHFRFSRDGLDLTS*SARLGLPKCW DYRREPRPAVRVYFYNRSVFIEYVQFC KLJFTFKINVRSQNLGSPNILKSLLNKLN
6376	14427A	7119	3	265	FFFTETRSVAQAGVQWCHGLSQPLPP GSSSDPASTSRVAGVVTTAT*VAGTTVV RHHAWLIFVFLVETGHFHVQAGLEHL DLR
6377	14428A	712	59	306	FGIDRTAVQTSSSQRLLCPWVAQKTYW LLVPSSLLDKLKEKKEVVEAA*NGRADAP ANGNAVSVCFAPEPWQLPHKJIPVLL
6378	14429C	7120	359	583	
6379	14430A	7121	279	566	FRRRFPLISLFFFFFFCFETESRSVA QAGVQWRDLGLSQAPPGFTPFAEPSRL ECSGAILAHCKLLLPGSHHSPAASANRVA GTTGTRHH
6380	14431A	7122	237	523	POEFKITSPGNVARPOLYNFFFFFFETESR SVSAGQVGWCDSLGSQAPPGSHHSPA SAS*VAGTTGAHHHARLIAVFLVETGFGH CVSQDGLDLT
6381	14432A	7123	1023	1459	KCTRKRGQGQIKVHLPILLFLNLCPTCFG LFLVFLFLPPFFFFFEIESHVAQDGVQ WCNLGLSQPTPQGSSDSPASAS*VAEITG TRHYAWLFLFL/EMRFHIVHQAGLEL TSGDPPASASQSAIRVMSHRLVFLVYY K
6382	14433A	7124	1794	4614	RFFSFFFFFFETESRSVAQAGVQWCNLGS LQAOPPGSRHSVASRVAAGTTGAHHH ARLIFVFLVETGHFRVSQDGLDLTS*SA RLGPKCWDRYCEPPFLASI
6383	14434A	7125	2	441	FFFTETESRSVAQAGVQWRALGSLQAP PPGSRHSVASASQVAGTTGARRHYARLIF VFLVETGHFRSRDGLDLTS*SARLGLP KCWDYRREPRPAVRVYFYNRSVFIEYV QFCKLJFTFKINVRSQNLGSPNILKSLLN NLN
6384	14435A	7126	3	226	CETESRSVTQAGVQWSDLGSLQAPPNGS RHSPASASQVAGTTGAHHHARLIFVFLV ETGHFRVSQDGLDLTS
6385	14436A	7127	153	504	KHFFFFFFETESRSVAQAGVQWRDLGS LQAOPPGSRHSVASRVAAGTTGTRHRA WLIF/VFLVETGHFRVSQDGL*LYRE NSIENILVQKCLKVFSHCSRSEITVTGN NLL

6386	14437 A	7128	3	313	FLEFETECSVQAQGVQWHDLGLSLQAPP PGSCHSPASASOVARITGTRHJPRLJIFV VFVLVEMGFHHIVSQDQLDLTLGSGLSLSL PKCWWDYCEPHPSPPSY
6387	14438 A	7129	3	307	FFFETETRSVQAQGVQRDLGLSLQAPP PGSCHSPASASOVARITGTRHJPRLJIFV VFVLVETGPHRFSDRGDLLLTS*SARLGL PKCWWDYRREPPRFAY
6388	14439 A	713	171	565	TLAFLFPLICGSPACPTMSDAAVDTSSEIT TKGLKRRRRRLWEEAENGKRRPCLTGNA AENEKGWGSREADNEVHQE*CGEEQ EEEEDGGEEDGDEDDETLSATVTRAT EDEDDDAVAPTKQTTRLDE
6389	14440 A	7130	2	91	
6390	14441 B	7131	3686	14131	MTNAFQYVQKNRGIDSEDAYPVVGQSYY YNLVSSSQEESCMYNPNTGKAACKRCGYR EIPEGNEKALKRAVARVGPVSAIDASL TSPQFYSKGVYYDESCNSDNLNHAVALA VGYGQKGNKHWWIJKNSQSAQTVLTPDE CLLGYLDKGKLKRDKAGSLQWASYM AARLGGFMDSMPTGIAIWGALX*
6391	14442 A	7132	8044	8378	YIDVKTFPFFLPETESHVSQAQGVQWH DLSSLQPLPPGSDSPASASRVAGITGTH HHAWHFIFVFLVGTRFHHLQAGLELLTS SDPPASAPOSAGITGVNHHTQPQKF1
6392	14443 A	7133	3	283	
6393	14444 A	7134	2	177	
6394	14445 A	7135	1	491	
6395	14446 A	7136	3	612	
6396	14447 A	7137	2	137	
6397	14448 A	7138	1	2631	
6398	14449 A	7139	2	112	
6399	14450 A	714	1	1497	
6400	14451 A	7140	67	245	AYNLSLDGQYGLVDPEFEYFWLCCWLP L*LGKCLWLVPVSVSGDRNDNDQAERN NGSHL
6401	14452 A	7141	356	2252	RSFLDEEFPHYDSLSCADAHQPLQEKELK QCCHKLYQQEARHJQHTPLTLKHTCWY TPLLDALSLSDFTAVENTPLESTPFSGVANQ IHTLCERPTYGEVKDGAQDVKRQHKCPG PTSGPSPGTNLSGCIRJMNDPMSMEENGV ERVCPESELLSQRGYSSLPLPRHTSSTDGTI TSSDPGLEILNMASCSDLDRNLSLCKKEED TRASAPTEAQGTSPAHDNIAFQDSTSBD KTILNLKEAPEETIEEHKKHEASGDSV SPLPVTTVKSVNRQSENTSANKEVEA EFLRLSLSGFKCFWTILEKRVKLEERSRD WAENLKKETNSLKLLESLTPCEDDN QAQEIKKLEKSIKFLSQCARVASRAEM LGAINQESRVSKADEVMIQHVNLENKRM YAKEHAELEELKQVLLQNERSFNPLEDD DDCQIKKRSASLNSKPSSLRRTMALLF LPRNYLGNAGMVAGMENNDRFSRrss SWRILGSKQSEHRPSLPRFISTYSWADAE EEKCELTKDDSEPSGEETVERTRKPSSL EKKNNPSKWDVSSVYDTIASWATNLKS SIRKANKALWLSIAFIVLFAALMSFLTQ LFQKSVDAAPTQQEDSWTSLEHILWPFT RLRHNGPPV
6402	14453 A	7142	1	835	
6403	14454 A	7143	1	3735	
6404	14455 A	7144	2	1161	

6405	14456 A	7145	126	572	NFSSNKWNTSQNFANMDNSAQKNERTG KHPRRASEVQKNDIPGPFGFVNVIHQSPV SNSVSLSKKGTCMFPSMCARLDITVSKY PAANAATIPSDFIKRDFSNSCSSMFQOLPS FMKALKFETJPLAPNYYNASVSCCKRRN NVCTRAGF
6406	14457 A	7146	1	1261	
6407	14458 A	7147	107	227	
6408	14459 A	7148	3	407	
6409	14460 A	7149	3	608	
6410	14461 A	715	32	3730	NSERRGLGMSLADELLADLEEAEEEEE GSYGEEEEPEAIEDVQEETQLDLSGDSVK TIAKLWDSDKMFAEIMMKIEEYISKQAKA SEVMGPGVEAAPFYRVIVDANNLTVEIEN ELNIHHKFIRDKYSKRPELESVPNALID YRTTVKVSAEKELGNSLDKVARAIEEPW QQILTNTAIMVVSVTASTPQQQQLSEE ELERLEEACDMAELNASKHRIYEYVES RMSFIAPNLSIIIGASTAAKIMG
6411	14462 A	7150	2	212	
6412	14463 A	7151	3	91	
6413	14464 A	7152	1	115	
6414	14465 A	7153	1	1279	MGDTPRQFGGARPRSGGALRGCRSRGG GNRRLCLCSRALANGDRRLTMDDIIAA LVDNGSGMCKAGFAGDDAPRAVFPsi VGRPRHQGVMVGMQGKDSYVGDEAQs KRGILTLKYPIEHGVTNDDMEKIJWHH TFYNNELRVAPEEHPVLLTEAPLNPKANR EKMTQIMFETFTNPAMVYAJQAVLSLYA SGRTTGIVMDSGDGVTHTPVIEGYALP HAILRLDLAGRDLTDYLMKILTERGVSF TTTAEREIVRDIKEKLCYVALDFEQEMA TAASSSSSEKSYELPDGQVITIGNEURFC PEALFQPSFLGMESCGUHETTPNSIMKC DVDIRKDLYANTVLSGRTPCTLGADR MOKEITALAPSTMKIIAPPERKYSVWI GGSIASLSTFQQMWISKQEYDESGPSJ VHRKCF
6415	14466 A	7154	1	111	
6416	14467 A	7155	143	295	
6417	14468 A	7156	186	437	
6418	14469 A	7157	3	356	
6419	14470 A	7158	1	220	
6420	14471 C	7159	102	407	MDAGLEAMQKYGKAAPGDRTMDSLW AAGQELQAWKSPGAADLQLVLTKAVKSA EAAAATKNMEAGAGRASYISSARLEQP DPGAXAAAAILRAILEVLQS*
6421	14472 A	716	3	117	HKRPLMASYLFFCSFVRVE*TIIICLT** ECHRYNR
6422	14473 A	7160	1	2302	
6423	14474 A	7161	1	178	
6424	14475 A	7162	60	413	

6425	14476	A	7163	2	1420	NSGVGAGARRAACRCAAAAAGTARS PALGMALLVGLVSLCTFFLAVNGLYSSS DPIVELTPSNFNRREVIQSDSLWLVEFYAP WCGHCQLTPEWKKAATALKDVVKVG AVDADKHHSLLGGQYGVQGPFTIKIFGSN KNRPEDYQGGRTEAIVDAALSALRQLV KDRLGGRSGYSSGKQGRSDSSSKKDVI ELTDDSDOKVLDSEDVVMVEFYAPWC GHICKNLPEWAAAASEVKEQTKGKVKL AAVDATVNQVLASRYGIRGPTIKIFQK GSPVDPYDGGRTRSDIVSRALDLFSDNA PPPELEIINEDIAKRTCEEHQLCVVAVLP HILDGTGAAGRNSYLEVLLKLADK YKKK MWGWLTWEAGAQSELETALGIGGGFYP AMAAINARKMKFALLKGFSSEQINIEFL RELSFGRGSTAPVGGGGFPITIVEREPWD GRDGELPVFDDIDLSDVNELDLGLKDEL
6426	14477	A	7164	547	980	
6427	14478	A	7165	3	1290	LYSNSDDVIELTPSNFNRREVIQSDSLWLW EFYAPWC GHCQLTPEWKKAATALKDV VKVGAVADAKHHSLLGGQYGVQGPFTIK JFGSNKRPEDYQGGRTEAIVDAALSA LRQLVKDRLGGRSGYSSGKQGRSDSSS KKDVIETDDSFKDKNVLDSEDVWMVEF YAPWC GHCKNLPEWAAAASEVKEQTKG GRVKKLAAVDATVNQVLASRYGIRGPTIK IFQKQGESPVDPYDGGRTRSDIVSRALDL FSDNAPPPELEIINEDIAKRTCEEHQLCV VAVLP HILDGTGAAGRNSYLEVLLKLAD KYKKMWGWLWTEAGAQSELETALGIG JGFGYYPAMAIAINARKMKFALLKGFS EQGINEFLRELISFGGGSNGL*GGGGFS LPVVEREPWDQGCRGRGPFWGDDH*PSV DAEVDLGLKDEL
6428	14479	A	7166	335	519	ILPGSGQGLRSSDQKAALKALL*FQKRS EMYKTK*FWGRKMSQFFFSVVRHTNPG SRLWA
6429	14480	A	7167	2	386	
6430	14481	A	7168	311	493	
6431	14482	A	7169	2	82	
6432	14483	A	717	1007	1118	APGPCPNQTLARDSGWVG*KNHQLCTC VCVCVCVC
6433	14484	A	7170	51	347	
6434	14485	B	7171	188	353	XDVVVVPVANCGVQEYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYLKDWHWL S*
6435	14486	B	7172	188	353	XDVVVVPVANCGVQEYNSNPKEHVTLRD YITYWKEYIQAGYSSPRGCLYLKDWHWL S*
6436	14487	A	7173	753	1216	QVVEVGPPRGRHPSAAGCPSPA*RRWKT RRAGWAARSPQAOSRRRRRPPARRLRP GPEPGRRRGHRPPGLGSGCRGRASRSGP SSSARVEGPSSSLPPERKR*GPASEPEDA GRVSAPPAGAARACTHARGSPRSSLRR RRAAEAAARSALGLV
6437	14488	A	7176	27	285	VFFFFFFLRLRSALALPRLECSGTIVFLVE TGFTMLARMVSISS'PRDLPALASQSAGIT GVSHRARPAFSNFLLTINILPPLWWTF
6438	14489	A	7177	12	336	SPVQL*FLLVFC*LWSWSA VVYGLGPL GTPSPADAHT/AGLSKTPPHWAARARLDD VFSLRTFSSHSLSNMLVQDLTASA PMYS STS RDPP/CLGLPKCWWDYKREPPRAAH
6439	14490	A	7178	74	463	HISQHDRSYLQLVLLASAYKTASFLLFRQ SL/DSVTQAGVQWRDLGSLQAPPPGFTP SCPOSFK*LSSWDYRRPPPRPANFCFCIV EKECFTLLARMVSISS'PRDL PASASQSA GITGMSHRARPAQVS

6440	14491	A	7179	1	412 TRMGLPDASRRRTCRMDPEGWQFAMSSA^GRITLQLRSLSTGPEQOGGREKVGPPEGGSENPOQPKAAVGVLSKHLPGAPAQPQPRPPSPPPLAGPLTERVEKCDFLDAGDYLN/GTPG*PSGEPSAAQDPFPVPPWPP
6441	14492	A	718	1692	2123 SQPRFSWTQERIRLFFGMLLNSLIVSQATQGPLKSCLSGSCLMMAFTFKKMPEPSMCSPOCFGKPPMMGRGLSGQQKFKNQAQYQHKTPLSRKSKKLASHHGGVHLWS*LLRRRLRQEDCLILGIRGCSEL*LHLCITPPSATQRDPLS
6442	14493	A	7180	117	295
6443	14494	A	7181	279	1065 IQHPRLSADDFRVNCETEPAM/*HAVENDIHGLCELQLETEIQAQFKEELL/FMKKNHEEEVKGLQAQIASSGLTVVVDAPISQDFAKIMADIWAQYDEVAQKNREELDNNRSQQIEESTVVTTQSTEVGAAKAMTELTRTVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQQLNLGILLHLESLAQTWAEGQQCAQEYQOALLNIKVKEAALATYRRLLEDGKDFNLGDTLDCNSNSMQTIQKTTTR\ R*TRQIVDGKVVS
6444	14495	A	7182	60	846 IQHPRLSADDFRVNCETEPAM/*HAVENDIHGLCELQLETEIQAQFKEELL/FMKKNHEEEVKGLQAQIASSGLTVVVDAPISQDFAKIMADIWAQYDEVAQKNREELDNNRSQQIEESTVVTTQSTEVGAAKAMTELTRTVQFLEINLDSMRNLKASLENSLREVVA RYALQMEQQLNLGILLHLESLAQTWAEGQQCAQEYQOALLNIKVKEAALATYRRLLEDGKDFNLGDTLDCNSNSMQTIQKTTTR\ R*TRQIVDGKVVS
6445	14496	A	7183	645	861 KYRKRGHSAIDASQTPDVVFASILAASF^ATCKDLVMFI^CWVQEGISFHPCREAMGNDRTGKEKLPSG
6446	14497	A	7184	2	1327 RPQLSPVLSLSPDSMSFTIRSTFSTNYRSLGSVQAPSYGARPVSSAASVYAGAGGS GSRISVSRSTSFRGGMGSSGLATGIAGGL AGMGGIQNNEKETMQSLSNDRLASYLDRV RSLETENRRLESKIREHLEKKGPQVRDW SHYFIKIIDLRAQIFANTVDNARIVLQDNR ARLAADDFRVKYETELAMRQSVDENDI GLRKVIDDTNTIRLQLETEIAKKEELFL MKKNHEEEVKGLQAQIASSGLTVEDA PKSDQLAKIMADIRAQYDELARKNREEL DKYWSQSQIEESTVVTTQSAEVGAAETT LTELRLTVQSLENDLDLSMRNLKAULEN SLAREVEA/RRTPLQMEQQLNLGILLHLES E LAQTRAEGORQAOQEYEAUNLNIKVKE AEAIA TYRRLLEDGEDNFNGDALDSSNSM QTQKTTTPFG*VGLGKVVS
6447	14498	A	7185	2	345 FFFFFFFETERSVVAQAGQWRDLSLQAPPGSRHSLASAS*VAGTTGVCVHARLI FVFLVETGFIIIVSODQGLNLTS^SAGLG LPKWCWDSEKLFFFFFGDKSFRFCCPGWSTMV
6448	14499	A	7186	178	388 RREPLHFANLLLFFFFFEMESPSPVAQAGVQWRDLSLQAPPGSGCHSPTLS*VAGRRLRNKNCLNPDAW
6449	14500	A	7187	546	850 FSVLFYFVFESESCLSVLQAGVQWRDLSLQOPPPGSSHSPTSAS*VAGTTGTCHTQL IFIFLVETGFHHIGQASLKLTS^FAHGLGLPKWDYRCEPPHPA
6450	14501	A	7188	4	410 PIERPHELKHLRPHVQKLVEDVGDGVIPAAEEGGQAGWSHGFLVFLVEIKSAEG/P GPADSRVGRVRPQRQSAGPA*RAGRQ DGVCRSLGQGRGGGRATSVLHPPGYPCWFWSVGVPSPLPQYTGIRSSPRTRG

6451	14502	A	7189	148	268	LQPR*PLTCAPPCCPVQTQTHPISVSQLL GLEFCSSLSL
6452	14503	A	719	1	371	HRHCHPSHTVDGRMESIDVATDGG*RTG VLAWSGLSVSLRTELSTRKLLMNSSEORI NRIMGFHRLGSAGAVE*RHQSMMQHDSD KLNLSLIPSVSKRVVVLVDSVCTGTTDHQG GVLERKVTTL
6453	14504	A	7190	397	1449	RSHSPSGTGRRTSRLESWFLGVSKCKSKV REGPLGPAA*AG*RGVRPQRQSAGFA*R AGKRQDGG*SPEPRAVGVGE*VGTQSP/GP SGASGYPGMLVSKPVGGTSASWLPAAC PIPS*L*QRSQGSQSPSSCLIGHILLALWAAF GLGVTSLPQYTGIRSSPTA*ATVQGDGSG HKGGTGGTGLGRGRNTQPDAAACGRGHR SSPTR/RPHGNPNHGNTGCAEGGQARSLLP KLAPKLPGWPVSVPAVUGDFGWRRQ AQYQSSSLWDLSSPRNTLGRSATSAGAP PALLGAGSGRSSGTSAPAFCSCSRCHICW ASAPAGVSGGPGIGRAEAPPSTLAQR GSPGAAJIFPPACGIP
6454	14505	A	7191	47	1654	LHVPARPPGCCGAFLAGGCPGPGWGQPR AQLWPQ/SAAPGPHPPALPSPVFPFTWP RLLSH*SRPA/VEQCPEPHVYPUDPASS WVPKSAASPRVACCPPAL*/PPFGDSC LCTAGLRGPGHDTELPQVWVRPHPGAS AEM*AHKPPPLAQKPPRPSISVPOPSAQ WYPAGPWVPT*AGTWLYGAI*SPQGLF SFYEMEHGVVPASLNPKWEPHDRV*LG GR*GKSEVPRGTPSLTGLFRGVPPQGP TGTQKHPPNDMVSFLISFCLFCFGFQ G*PPG*SIHIEPLTGLPGCQQ*Á*P*VLL STAGSAHAV**GSELVHLO*LHPFSFC PPVPLALDLQVCRPALSALACGPAAIGS WSPEGPVSLLWMGVGVVPLCGLSLYPA L*NLAERGPQGPFTKG/JIEGTPHTPKC NHQVKKLGVLPQGGVTKIEVGFWGPT R/PKAGETRG*VGRVPQSLA*PQCVSP LP*LSGTPGRSWG/PVLSPTPAHSQALRL CGHSPPCWSLVIGLELYFDAMKTLFISNV YIF
6455	14506	A	7192	4	496	NRTERLGRWCPCTGAWPAPVNLAKLA PS/HDESEQVGSVCVPLAQSMAFPGAWR AGHIIHRRSENPRPQPPFGSFKRFGTNR GWSRREDDDPGGPGSSRWPPAPRRGGQ WRCRPREPG*RRSSAAGRGSPPCALRHRA TKASSCSSPCPPPTPKRERALAAASC
6456	14507	A	7193	3	514	SVPKREELQGHHRVRGEHWRVTRQDV LQHRLPATSVWTHPVLPLPTARAPALGRA SGAARRTAARAAPLAAPVAAAAAPGRA RPTTTPWAPSPSPRSASPTAPSSACWSP TPAGSPFALRPLRAGLAVYTRSAHPRR PLPAHLCVLRJHRATKASSCSSPCPPPT KR
6457	14508	A	7194	2	324	GGGERPPLFPPLWRPKPVGPPRVEIFGPAC PPWENPFSLKIPNLPGVVGPSPDSYRF/SEG LARKLPLTRKGRFR*PKFPLPSFLGKKK EIRPKKTKKKIFDNSSSC
6458	14509	A	7195	3	344	EROKLHYKYSQFLTLFQDWNTNIVKA EPEEQKLATMFREQQKSCL*ARMVQRQ RH*NLN*NOQFLRSLEDLEENQSSFTD EQSDLRKEMARLQTKLMKETLQQDLALI HSC
6459	14510	C	7196	68	319	

6460	14511A	7197	56	945	HRKLDNRNVSRLHMCGCGSPGPPEPRRAEEPC PPRCMPTKETGAFRSHTRSRLGPF*SLAE PPR/PRVPSVRGQLSASSPPPLSSRDAGLQ TSQLLP/SWGVWSUPNSIPELDLGPLSPTR LSAAFP/CRSPPSTGNKGDTASQVDSPHP* PSFRSPGELSRCGPDPVTATSPHEWTQ GDKWRPCSCPLVMQAPPTSHIFLPPSSRS SLRRRAPSGCPWGCLG/RPPAGPWATP LAGLFWWSIGVRLPG*GVLPPASRGSG*G PFRHPDAGSERPAAAAGFAGP*VCSN SSALPSVVEGLL
6461	14512C	7198	161	262	MJKGIPCLHPPLOSSSQSDNSQKCLQTL SLPR*
6462	14513A	7199	132	1007	NFOAQATKKEGRKNARKGGSVCSGP WGPPRKVPTVWRAESP/GPGEASHAGE SLRHGHAGAGPKGMPRRLPTENTVSAE GSTGGESGARVPDTGKGL*PATHPLPWG SLSGF*ETORL*G/PCLEG/G/VPGEGAGQL ETFLAVV*LGAAG/GWVEARDTFKHPTV CRTAPTKEDSPETQQSGAGIGEAAVWC QPHGRKALQEACGEHGDGRGFGNNHA E/PDRGNEAAPTNNNPTHDGHTSL*/G VTGPS/PGRWGN*GPESSEPGLDPGIPPH PPTSWCGLFLRSPRLHS
6463	14514A	72	218	428	LSSPLTTISRVFYNLCSHL*YSLKHHF1Y LFYLFYLFIYLFIFETESPLSPRLECRSGI SAHCNRL
6464	14515A	720	3	408	DAWANARSVRLEVAGLRRDL*R/CSER WPLARATPFCFGSAMPMYQEEENSLSLQ ALESRQDDILKRLYLELKAADGDLSKM1Q TPDADLDVTNIQADEPTITLTNALDILNS VLGKDYGALKDIVINANPGFPPPLF
6465	14516A	7200	59	326	TGLSPGEIIGALPGNLV*AFFNNPKNLP GAVGPPGVPPFWG*ARLGGLGPRSSSEPP LVGLGPLAFLRGTKLGPVFVKNQEKKK TSV
6466	14517A	7201	3	263	TLRKKFQPGKTTRFSPTH/FSFPQPKK EKL*GGNPKFFPPKKKPPPCKP/HFPSSS PPKSSSSQSQHAPPKKGPPPEPLKKNP
6467	14518A	7202	1	348	RYRSGIGPRRTRAGETPSLLKIQOPG/GD GARS*SRLLRRLRQEENRLNPEGRGSSEL RLCHCTPAWARE*DSLSKKKKEFKPIY FLTLWDVFRVTQYTYSIPMCILLCGEMVT DI
6468	14519A	7203	3	441	SSGSRSECRFLPLLNFNVLEILAGAIRO/Q KE/KGIHGKVKEVSIKLTEVINFKFKV*Y KIN/S/NKSVVCLYTNNEOLEKKFKISSSS SSSSSSSSPNH*GKDLYNENLKTLKEM KENKWINIPCSWIRRLNNVNISLSKV1Y KF
6469	14520A	7204	3	310	TCVMDITDYRLLHPSTADCTIFCPSSNGI FTNIGHILGKTHINKFISIEF*CLLSDHRI KLENNKTKWKPKYL*INTLIKECEEQF *NTVN*NPNII
6470	14521A	7205	3	88	
6471	14522A	7206	2	1053	TMPSSSVSGILLLAGLCLLVPVSLAEDP QGDAAQKTDTSHHODHPTFNKTPNLA EFAFSLYRQLAHQSNSTNIFPSVSIATAF AMLSLGTKAHDTHBIELEGLNFNLTEIPEA QIIEGPQELLRTLNQPDSQLQLT/NGNGLF LSEFGKLVLDFKLEDVKKLYHSEAFTVNF GDEEAKKQJNDYLERK/TQGKIVDVLVK ELDRDTVFAVLVNYIFFKGKQWERFEEVK DTVEEFDHVHQATTVKVPUYELKRLGM FNUQHLLKLUSSWGA**KYLGNATRH LLSCLDGGGNLQHGLKIELHPTIIHSPSFL GEEGQ/DRSCPALHFTQIVPLLGTYGFLK SVLGFNWGH

6472	14523	A	7207	2	334 RDPPPGPAITARERKCAHKPSLHQITIV THILKL*VVLAQTLIEEPTHCHANPDILFE DMEAMTDLHELCQQRHINNQLDM DLILDGKFQVVGCLSELKQKDSSN
6473	14524	A	7208	1	306 LRSS/LCSVQAQGVQWWDLSSLQPLPPG PMPFPRLSPSSWDHRRPRPLPANFLYF* *RGEFLVARMVSIS*PCDPPASASQSAG ITGVHRHTQPPRYVFM
6474	14525	A	7209	156	331 QPLILRCLPPRSIVRFNSIPIKIQVTFV*EK EKSLLKFIQNLKGP*ITKTILRKKKVD
6475	14526	A	721	25	494 PLTYSERWPLARATTPCFCGSAMPYQV KPYHGGGAAPRLVELPTCMYRLPNVHGR SYGPAAGAHHVQEESNLSQLQALESRQD DILKRLYELKAADVGLSRRIKPPRATLD ETMIIQADEPITLTITNALDLSNVLGKDYG ALKDIVINANPGSPPLS
6476	14527	A	7210	50	269 FRNIKHQRDYNEQ*Y/G/NKLDNPEDMNK F*ETRYT*/PNLHOQEIGMLNRPVTNKVL *LVKIPPLTKKSPEDPGFV
6477	14528	A	7211	584	1001 IJKL.WGVGTG*TKVPPCPVPPPTPHSR*GP PRECLRRQ*PRP*SPGFGLSPPTSVELM GVKTVTLSQGASEREGWSW*KGSPLNNGR QFWAQGGA/LSWVAWGGGGGWRSNSG KO*QPGEQGSSLQPLIPPPRTWRMGPQQ
6478	14529	A	7212	79	315 ERDFLFVPRVGFQGPNLG*LKPFLPLGPL FSGLTLP/RNWGLRGPFTTP*FLDFLKK RGFNIVAOVGLKFWTSGDPPP
6479	14530	A	7213	247	827 KYLEJVLLLKY*RNSESCVFILKCSPSIL LELTMKKKILCIJYI*LLTQVTVTQWIFV CPKPTF*S*AFNNDV*IIIILJLJVVKLLL WVVOYILSFLILLKLN*DVCFVLH*VLF KNSLCVYEELILDLFLYLSMKDN*KFCFTL GPWKFV*YFLRMSIYFVHN\KLALYMK MGLNQKKVMLLSSKKK
6480	14531	A	7214	1	311 LNREKLKAFFPLTSGT*Q/E/CPLSPLLFNNV REVLAIRAOKEIERGIOIGKEEVTLSPV DDMILYLLKPKDCTKPLEL/NTFSKV*A YINIQISVAFLNAKS
6481	14532	A	7215	6	375 ESLRSPSRSFSPSPAYRGHGCSPRASH NGDCPRAEALSDTVPQSSGSDHNEKG PSRSRSPFLII*PGWPWGPAGCRGRPAFTPW RLPAGPLRDSQEDPPSPPEEPGSGGAAQG GGG*GLSCFP
6482	14533	A	7216	80	251 GKHFHSKTL*NNILL/VQLSVVAINIY RTSNVEVLLQFLEDQNTFPNFEHLAYR
6483	14534	A	7217	161	333 GKHFHSKTL*NNILL/VQLSVVAINIY RTSNVEVLLQFLEDQNTFPNFEHLAYW
6484	14535	A	7218	3	299 PPFRTIHARRFAPTOQDWQICFTQH/RP/G VRKFKYLLV*VDTITG*VKAFPTRSRDKA TAVITSLLSDIPIRGLPTCIOQSSTLALISI ISHPSQCAATIQ
6485	14536	A	7219	526	1108 TQTKNSKITYF*LLF*ETGPHSLSPQAGV WVWHSHISLQOPPGLKWHPPHPSLSSWD YRHTSLR PANP*KJFVETGSLHV A QDGLE FLGSSSPVVASQSARIAGMSL GARARPC LK
6486	14537	A	722	358	445 NSFGRTIFFFFY*FFFFFFFTIQTFKGGPL SPFFFFLFFINPPPRFFFFF*TPFLRALAFF KPFKKIVLAEPYFFFNPQILMRGGGG FSGRGS
6487	14538	A	7220	181	272 IQSWFNILKSIHVIIHISNRLK/VNVHIVSS SSSSSSSSSSSSPFLIKKQ*KG
6488	14539	A	7221	2	334 YDEEWRRSTVHPDEVGNLK*EDR*ALQ NRLRVLFLSLMDTGOWLDNLLDIDKADVI VKMLDAISVIMKMEGGTDNDLNILDQDQVE DEHA*KPGEPSKNEGRAVSGLGGDERK

6489	14540	A	7222	1	323	VVSYLLVFESSSK*KKIIYQDCIGFVQDC LNNDPIDSRLRGCKNVIISLDTEKVVGRKJ* PFMTKIFSKLGIEGNFLKWLKVQSQSTVS LLNV*ILKAFLSRTE*GCM
6490	14541	A	7223	2	690	ATV1DVEGFQYNNIREGQMLTAFCGMYP YYAPERSLGLQACQ*PARDIOISLSVLYPR NTVGRRAARTLPFYS/AEASKLQEKILTR YHAPPLFALQLDSLU/KLMLNARKGPSSL *LMKNPWVKRIOQKMLPIPYEEP/LRGPPQ TIQLMVAMGFQAKNSIVAJERKFNYPM ATYLIL*HTHQERKCSIRELSLPGVAVTS PSPTELSTFPLSLMRRAHREPAFNVQPP ESQ
6491	14542	A	7224	2	338	SSSYTPEWQ*RSRSHSPMSNQRRHHTGR RANPDPTNCLRVFGISLYTTRDLRVC S*YGGPLNGANVYNNQQTGRSQGFAVFH F*GIDDSKEAMVRANRKELDDRRVIRVD YS
6492	14543	A	7225	604	841	RPGGOFCLMMEAASPQFNPFLLNLNPREW ELRVPPPRTGRNFF*FLKNGF/EVNPGGF DEFL/SNDPPAFASKGVLGLTLP
6493	14544	A	7226	3	343	HEPNFGFYAEIECERNSPELDEEGYSIIPD EPGSTNGKHFSSESEY*B*SHK1/YIQIK PSLSTDILNNAAPVDELKASIGNALSP*P EGAIIKRNLSSREEVAPRPRPFTPS
6494	14545	A	7227	3	304	HEEKNEKIRNVGLCEAIVQFTR*YL*VCL *RSVNS*NCCWRIVPNIFF*PL*TFSPSKP AKSLHTQKNRQFNEPEENFWMVVMVFT YTVALSEIVWVELW
6495	14546	A	7228	1	167	SARGPDGFTAEFYOTFKKEELQVILLKQFQ RIKGESSLKSL*ETSITLIPKTRKG
6496	14547	A	7229	2	334	ARDRAALETVIRRARPRLRRPGVQGIPR VHELKIEEYVQRGLQRVGLDPQPLPMLA ALYAHVA*EKKVVSLSRITLIVLIVLVESLI LLIUVLTGYQQLSILCTCSVGNIF
6497	14548	A	723	452	764	LLFSKCRAVEKNLSKEDPHMETIKVAFV MTSGERDTGLTEPMAG*RGS*GS**DGP ARGHETSLGHGRGVSGDGGSMPSLTAN ALPSIRPFPDSVTDSGSAPL
6498	14549	A	7230	1	792	FYREVPKSLFVDCKLILITEIPKES/NRL OTRELSKMLAYKVSMLKSILFILTREYK KVKMPFNVYNNNTKYSRINLMKD1YDL YTAIYPTAAALKYRVMCNLQNIARRN* PPLNKWW/REE*YSWIEGLVVKILVFPKQ IYRFNAPSNKKSPPLNKLIPKPF*KYKG RRISQTNLGRITLQDLK1YYKTTLK1NV WYWEVVRQRLLPAPQSAPIPRTCWQLS PSDLQGLKGAEGLTWDWGKQSGETITS GHILLPLSTFG
6499	14550	A	7231	1	2541	
6500	14551	A	7232	560	901	GNPATPSHCSLQPQPTPQEAGA/YNPDF FF*KQ*QPKPQVSSQPPWPPLSTSLPACP SCSRSPAPAVPAPIQAPSAILPLPGQSVER LCVDPHRQGPVNLLSDPQEPLPGQVETG
6501	14552	A	7233	13	2931	EEGRQQSPAAADVKTGLRAPLAASA/WPH RCVRRLLARITMKPPRPVRTCSKVLV LSSLAIHQTTAEKNIGIDIYSLTVDSRVS RFAHTVTVTSRVVNNRANTVQEATTFQML PKKAFTNFSMIDGMTYPGIIKEKAEAQ AQYSAAVAKGKSAGLVKATGRNMEQF QVSVSVAAPKATIFELVYEELLKRLLG YELLKVRPQQLVKHLQMDIHIFEPQGIS FLETESTFMTNQLVDALTTWQNKTKAHI RFK

6502	14553	A	7234	3	338	DAWVSVLCCNLSEAKRRINSLSYNOCE IRRPLSF/RDV/WNGENSRVVEKQASEQO VELLTNERYLMEEQSLLLQYLHVYHMN YFLDLTCRPTFYCYLTEAPIG*PMCKGYL S
6503	14554	A	7235	147	380	ASCRDFFCCLLCYRVLFSNLTVFCFAYR YFNLYMSPCFITFLYFWWL/FCYDFL/D YVF*TLLIVLVCFFPVSPVMFLI
6504	14555	A	7236	1	257	PTRPDFFAQQQHLPDKIYHVTVMPCYD KKLEASRPDFNNQEHQTRDVCVLTGE VFRILLEEVGSLPDEPAPLDSLCSGAYA *EPTSHRGGSGGGVLDHVFRHASLQLFD S/DVV**VSSHLR**DFAQQQHLPDKIY HVTVMPCYDKKLEASRPDFNQEHQTR DVDVCVLTGEVFRILLEEVGSLPDEPA LDSLCSGAYA
6505	14556	A	7237	2	502	PWWNLNORRTSAQPGTAVGLAVA*FR QTGLTRSPSSGRDGAGVRDLWNPPPVP IPL/PLGFHLRGPDSTLAEQPSACLPGS/PP CRNGLGQPQHQHGLWP/*GIQFRLQGH GNQGPQGPNSLPYPPLFAAPLHTRHVP/C LHHCCPLTWAAALPPLCLWRCSAJQD
6506	14557	A	7238	1	828	
6507	14558	A	7239	2	775	NISRFMLQQSKILKVKRNLUVKCLELFT ELADEKNEYKKFYEQFSKNIKVGVNHN* FSNWLPL*FFFFFNSESLCKEHTLFLQGH EDSNQRKKLSELLRYYTSASGDEM/VSLSK DYCTRMRKENQKHITYIT/GKRTLCYSH RRSYNLVGSVGVFSTQVALLOVLI*AR* LT*TRFSVLGSA*VSG*QEKSDELDETILN C*KV*K*LNTSGETKDQVANSFAVUEL RKHGLEVIYMIPIDECAQQLEEF*GK
6508	14559	A	724	209	384	KYETIRYRDHSVKGRTIF*HLTKNCLHLR AIGLGADDSSHYSANDVADSGTILFF S
6509	14560	A	7240	1	2303	QLLQRPGAVPLVLCGHLAKMPEETQT QDQPMEEEEEETFAFAQEAIQMLMSLINT FYSNKEIFLRELISNSSDALDKIRYETLTD PSKLDSGKELHNLPNKQDRITLTTIDGI GMTKADLNLLGTIAKSGTKAFMEALOA GADISMIGQFGVGFYSAVLVAEKTWT KINHDEQYAWESSAGGSFTVRTDTGEP MGRGTVKVLHLKEDQTEYLEERRIKEIVK KHSQGQYPTLFLVERKERDKEVSDEAEE KBDKEEEKEKEESEDCKPEIEDVGSDDEE EEKKDGDKKKKKKKIKEKYVQOEELNLTKT PIWTRNPDDITNEEYGEFYKSLTNWDWED HLAVKHFSVEGQLEFRALLFVPRRAFFD LFENRKKNNNIKLYYVRRVFIMDNCEELJP EYLNFRGVVDSEDLPLNISREMLQQ/S KILKVKRKNLVKKCLELFTELAEDPANY QKFYE/QFSKNUKLALEYHEDSQNREKA FPELLRYVTSAS/SEDMTLKD/VCYTRM KENQKHITYITGETKUDQVANSSLCGTV FRKHLGEVIVYMIPIDEYCVQQLKEFEG KTLVSVTKEGL/ELPEDEEEKKKQEEKK TKFENLCKIMKDIVEKKKVERVYNSRLA VTSPCCIRVTSTYWGWTANMERIHGKLQ ALKETTSTMGFTWOPKKHLEINPDHSIIIE TLRQKAEDKNDKSVEGILVILLYETAL LSSGSFLEDPQTHANRIVRMIKLGLGIDE DDP/TADDTSAAVTEEMPPLEGDDDTSR MEEVD
6510	14561	A	7241	158	405	RMNLDSDGMDDIIQSSESSLDMEOONYKK AQKNEREAIRLILAL*SFFDGDSRIYIS/CE QSGKQIFSPH**GINFQIGLSSTWSP

6511	14562 A	7242	3	442	TLLMFNNNVSLTLTFCMFLFSLPCTED VPTCGDSCDKVLCGIHRCSCRHRG*C *VYFIIAVFQAGPECLHCEEGCSKSRPL GCLHPCLRLCHPGECPPCVCQMLGTAESA VLPAQACHCPQCFCLOSPPFLLFTHEPQSSW SSG
6512	14563 A	7243	2	322	SGWSLTERQDPYNNIVRTAIEAMAAVFGG TQSLSHTNSFDEALGLSITVKSSLIPFSLHF LFS*QFSLSYISIFLFILIFFYFYLSSLIIHFFY IYLYSISPLFFFLLFYI
6513	14564 A	7244	1	361	RELLAFWQNFKLRLPOGPFFSPGPGGKEKK RVSPLKTPPKGGPPGP/SNPGRLLPSGGQLP PRRG/SPOQSSSLPKGPQGWGPPP*RSP PCPFRHGVQVSSSTPGLVFRGQLPNPG NLCG
6514	14565 A	7245	115	313	LVRSLTSPLPHSPNPTTLSLPS*LPPYGPVY LSHYPPSPPTSLTHPPSPSPPTSLTPPSPI TPTS
6515	14566 A	7246	2	326	NEGECKRDVEMEPVLQAEKTNFQNHKG HEFIPTLWHFPANCACAKPLWHVIKPP PALECRRCRCHVKCHRDHLTYDDLIFPCN IRYDVSSTLRYS*LLHFSDEITHI
6516	14567 A	7247	1	364	EHTRAEDHMLEEREER*RAERAQREE* LEYERMKTLE*EADRNIRPRELEIEERER RTEERERILGDSSLSSRKDSRWRGDRDSEGA WRTGPEAHSEWTIGSPQMEWRP*EWLY DORSYTG
6517	14568 A	7248	86	512	RGRVEAAPGYGSHLCHNFLPCITYWQKF GQPGPLQRTAASYSSDTMLGKTAETHPT FAFFPAQGPCKESWQSQRDTARSSETLTGT ACSYNTGNWAGAAAAGHDTEDLQWLQ RKRE/RSERKTRTDLKGVRTSNGTARDNC NCAYS
6518	14569 A	7249	2	703	PDCPSRPPTVARGTSPGNKTKTEAHKGPKS VSSAPKMR*SLQDTG/REDTREPVRHTD TGTKEQTVIFAD*KIAGRCKT*GQPFRQR PPHGGGSTPQLFSAIIGTSFPPRFPAVKV HGFKTSPTGRGGGHWANTRSFWLATAK KRESERKTRTDLKGVRTSNGTARDNC AYSPHRRERGAPPFAHGLYRRSVCAKRKN HVLSKTTGGSVRRHDHRRSRSWRLRPG VSHHMRRSQR
6519	14570 A	725	68	362	SLPTIRECIYIHVVHAGDHIGNACWELYC L*HGHPDGHMPRDLTIGGGEDSFNTFFT ETGASEPVPRAAFADLEPTVIDEVGTVTY GQYQLQL*QJIK
6520	14571 A	7250	148	357	LGIDLTKKVKKLSSKKNYKTLMKJEDDS N*KDNCSL*IR/MTLKPKA1YRPNITSVNIP MRFLPDAWADAW
6521	14572 A	7251	1	389	RGAQAHIIWF/NLDVASLEHPSKWLADA LKENDLPSVILLFLTRAQYALMEKDALQ VAQEAKYWAQSSLTGENVREFFFRV AALTPEANVLAELKSGARRIGDVVRIN SDDSNLYLTASKKKPTCCP
6522	14573 A	7252	1	144	
6523	14574 A	7253	174	809	DQRGGNWAYECQWEGPCRLTHPLLSTS HGRQWLADALKENDPSSVLLFLVGSKK DLSVSPVPGGLPSLVRCPPLATLPFQT AQYALMEKDALQVAQEMKAEYWAVSS LTG/EVGGFRALL*HSCLALLSLHLQLC PVSPDPALPLSTYLLSVSGENVREFFFRV AALTPEANVLAELKSGARRIGDVVRIN SDDSNLYLTASKKKPTCCP
6524	14575 A	7254	1	524	MERFEVLIIPFSLQLWDTAGQERFKCIAS TYYRGAQAHIIWFNLNDVASLEHTKQGV AECLKEE*PSRVRVLFULLGFKKKDLSTPAQI YALMEKDAAFGGPRRLKAEYWAVSSLT GENVREFFFRVAAALTPEANVLAELKIG

					GLDVIGMFVRINSDDSINLYLTASKEEAP HVCP
6525	14576	A	7255	1	258
6526	14577	A	7256	2	562 RCFARYRPVHADPLYCQGHAAPVGYST VSRTTHAOPGVQLPPPPYTA/GRGAQVG RGCSPARSGAWPHRSQAVDHPQTQGDH TADPHSSGLNDHSIHIHGAGARHLPPPQG HAAWPP*DLNPCRCTQPS*PSHSPRPGSPL AFVAPFWALGWNOQEYFPFKSDSLLLA LYLQWVFPCVTVDPPNVINFNK
6527	14578	C	7257	30	323 MRLQLPLSTSILPVKRKGKKEGEAVVLP EPLGLTAREQEAUTPRPRETTQLPITHQALG WNQEYFPKSDSLLLAKLYLIQWFPC VDPNVINFNK*
6528	14579	B	7258	249	374 RLWRPLREVGGSVDQRCITKPREPVSGI RYCDFLPGVYDCT*
6529	14580	B	7259	77	867 XAGALQDITLSQQTPSTWKDFTQLLTA SPEPTGLEATAAESTLPAEGPKGEAEV VLPEVEPCTAREQEAUTPRPRETTQLP HTQASSTTTAAQEFATSIIHRDMQPGH HETSTPAGPSQADLHTPHTEDDGPSATE RAAEEDGASSQLPAAEAGSGEQQDFITFETSG ENTA VVA VEPDRNNSQPV DQGATGASQ GILDRKEVLLGGVIAGGLVGLIFAVCIVLG FMLYRMKMKKDEGSYSLEFPKQANGGAY QPKTQEEFYA*
6530	14581	A	726	1	1254
6531	14582	A	7260	93	1049 TSGSHSGITQFLFCFGSGAQPTGQSP* KRP SPGPQHRAARCTHPEGSPFFGSSCSRPR NRRAWVSAWWAGS*RPAQWSQELTQJTP KOAGGOWRGFAPSRTMPMRLEPPQOH KEQERHGVALEQSR/RTLPPALGHCTV* DOPSAFFVPAQPWGNPNSMGS/AHERSWV CHVL*LSSHPLIQGRRGGSPCPPIPVGCLISP SPCGGGQPRQPDQPSLILGA*ASGFSGTPK FKPGTHHGPQCPPLPSAGLGSGLGEDL EAVGRTQPSNA/FLAPGQ*ATGGSALQPP VHTASNAPGPVSPDAPPPLPDQAQRQLQD QQAKAKPCPR
6532	14583	A	7261	2	643 PRVRLNGIVDR*VLGCLPCYDILGIFTIDRD LGVHADAHDVLVENLKDLIA**IPFLAEIG RIHGDKVTVALRPFHMERMEACFKQLKE MVENEYGVIRMPSSLDD*RGIRPRSMVR AFTMPSSSRPLSVASVSSLSSDTPSRPGS DGFALEPLLPKKMLSLRSRHDKLKYKDDLT DKKDYMTYNWTCRQFQISRDKMKRTD VSLYIMLVSPNPNLSY
6533	14584	A	7262	59	339
6534	14585	A	7263	2	519 IFLFLFLFYFISFLRWSTFVAQAGVQW*D LDSLSQSPPRFK*LACLSLLSSWDYRIMP PRPANFLYF**RWGFTMLARLVLDs*P/ CDPP ASASQSVGITGMSHIAGPTMKLLN PQESEFSPRNHSHTLLTPLSRHLPHPISIS TWCHIYAPLHTVSISAAEAPWLFAPOS
6535	14586	A	7265	3	317 EESPTAHMLRHGVQPFCCQCDKAYG TQDLKHEQVVHSIGARPFCACDQCQGKAF ARRPSLRLHRMTHQ/GOLPMLAHALCG AAPGSQGFLWNHMRLLHT*KKPPL
6536	14587	A	7266	285	672 PLCTREKSEYMCITSYSLARSRVGQTLCK GVQWRHLSSL*PPPFGPKQFSCLSLPSR WDYRCPPPHIANFTYF*QRQGFTILARL ALNS*PRDPPASASQIAGITGVSHRDRLII NFLDFEGYT*SAIDS

6537	14588	A	7267	3	231	QIEQLHRRF*AA*/RGDQOPTIRKENFNNV PDLELNPIRSKIVRAFFDNRLNRKGPRGL ADEINYEDFLTMIFYFLSI						
6538	14589	A	7268	88	360	KIMMIGLLKLVYRFSIHVPKTPAGLF/TK NEQ**TEFDKRILKSIWKCKE/PYSTRTMF KTEAKGLPS/P/DFKTYTYEATEPKTS*D QQKDRYKE						
6539	14590	A	7269	2	355	RRLLFFFFPLRSL/DSVAQVGVQWHNIG SLQAPPGFTPFSCSLSPS*DHRPPCP ANLY**RQGLTMLAKLVSTS*PCDLPA PAHQSAGITDMSHRARLIVSLFRQKTY GNN						
6540	14591	A	727	65	1552	PLKAKMGKEKTHINIVVIGHVDNGQVSP LGHLLIYKC\GGNDKRTIEKFKE\EAEM GKGSFHYA*VLDKLKVAERERGTTIDSL WKFET\SKYVVTYVPFDAPGHQORLLSKN MIYRGHLKA*PGLGGPLFGGVLP\FAA GVWWNLKAGISKNGQVIREHALLGHT WWVKQTKLFGVNVNWIST*GHPATAQKK ILKEIVKGKSALTLRKGIGYNPUTSILCPLIS GWINGDNNAWSNPNAUNMPWFQGDGKVT RKDGNASGTTILEALDCILPPTRTDKPL GLPLQDVYYIGGIGTVPVGRVETGVLPK GMVVTFGPVNVTTEVKSVEMHHEALGE ALPGDNVGFNVKNVSVKDVRGNVAG DSKNDPMEAAGFPFAQVIIJNHPQISAG YAPVLDCHTAHIACKFAELKEIDRRSG KLEDGPKPFLKSGDAIVDMVPGKPMC VESFDYPPPLGCFAVRDMRQTVAVGVIK AVDKKAAGAGKVTKSAQ\QAKAK 6541	14592	A	7270	1	336	RGTJGRTLAQRGARSSG/LPTV/LNPGRQ LTSAG*PH*YGKARAAMPTPSLVRPVLK VGHSPSPVEVSAGAEIAPWTISSLVNPSS LPGPASSMPPIPNSNSPLASPVSYTIVL
6542	14593	A	7271	1	371	RSRPLNDYKDKA\ATKNVQK*MQRQ KG/DIAIDATEQRHHDYCHEYHNKMS SSSSSSSSSS/PSSSSSSSSS/PSSSSS SSQSLPSKKNSGSEGTAEFYQRKYKTP ILKLKFK						
6543	14594	A	7272	2	406	ARAARVFHLRTSLNLSNGGTQC*KTMV VHDDEYESEPCMTPSKEGTLLIVRQTCAS STLQHKHSSSSFTPFDPRLLQSPSSGTV TSVVGISCNWMRP*SIKHYPTQKGSLSF* ISTH/TPQSACFVIFLYC						
6544	14595	A	7273	1	165	GSSLPLLNIILEVLAKAIRQEKSQNEKE KV*LSLLTDHMI/YM*NPTVKKLT*KLT T						
6545	14596	A	7274	110	409							
6546	14597	A	7275	53	930	ARSYRQLTMEANGLGLQRINTDTYPHPH LIAPRQGPPELKNDTFLRAAWGEETDVT PVWCMRQAGRYLPVRETRSAQDFST CRSPEACCELTLQALRRFLPLDAAIIFSDL VVPQMFMSPPPAGMNEVMTVPGKGPSPFP EPLREEQDLERLRLDPEVVVASLG.YVFO AITLITRQRQLAGRVPJLGAFAGAPWLMIT YMVEGGGSTMAQAKRWLYORPOASH QLIRILTDLVPPYLVGQVVAAGAQALQLF ESIAGHGLGPQFFNKALPYIRDVAQKV ARIAREAGLAPVPM						
6547	14598	A	7276	86	552	KQPOPTAPLWQPPLKLSKLLGLAPGHGPC CLHLLSALGSLPGLVWPWLPSRVGC/SS*G LJ.LTKSPOPSADPGORRVALHHVL*VEP FASQEAQPPPSLP/WW/PLRGDTESTPQGPS PLSARCTHPGCRSRVGRWGRARGWPAR CQGAGGGPGGWRTTCPGR						

6548	14599	A	7277	176	779	NSVSKLGLAPGHGALLPPAERSREASQI PRGRAPGVIIYHKLQKPRRGRLLLPFTIR RPLPSKPHLCAGLCLGGPGPTSPLFETIR NWARRPPE*POGACU/LLLSLGDPRGVG *PWV*TPGGLFWFMSLWHPGPQLKPPPL PRSLRPRPSLDLIGRKRHQQDKEPKGGA APQMRAL*PVLPPLPHGTAPQLVTA KP
6549	14600	A	7278	32	492	FALLSV*SDYRHVPVCILVFVLFVEQFGNVE LAKLVSNIP*PO/CDPPILASQ/SAGITGV HCAWL*LSSFSFC*DRVSVTQAGMQWH DLSSLQPLPLGFN*FSCLSLPSWWDYCRV PPHPANFIIFSE
6550	14601	A	7279	19	253	LENFSFLTKTLPLAIACRNKYMLNTKCESC KLREIKDNLKWGSTPCSTIGKLRIVKMS FLPKLJYKSQTKTFLQLTQK
6551	14602	A	728	344	803	KRDPLSAYPAFFCKNMLNSTLHFMTAYAS LYFIYIPTVVFQVHDWLHSKAL*IPFHISPS TTIPLTMVSQPYTEHYIUTKLGEFQVVS GNYIHKRFCFIAQFTI*LVTITQTMRLR*ISD YLDKYIGFCPQPQMKQERHTYSPPYQGC VYSVVQS
6552	14603	A	7280	3	1023	FLNWKSCKLYSTDDMIYIENIAKRESKKL LE*VN*SKLLEDTSRMYSKNAFLYTSNNLN GKPAF*KPYPLAJACKRUYVMNLTKCES CKLREIKDNLNKWGSTDPCSTIGKLRIVKM SHLPKLIYKSQKTFIPLADIDKSCF*DSFT PGLPRLWEWPWPRSQAH*KPSNLPGSSNSP GSLSPSSWDSTSACHRRLANFPVFLVEM W*CMPTVPTTWEAKERAHPLDPRVRYG CDCATTLOQPGQNEISASNSKTTVINIVSY WCKCVIHTRKWCPEQTTSMSLRVFTNL* RLGHWESRVSTNTRPTEPTNHTDKKVNL PYHIWYTKMNSKWTIDLNVKGKTIKVP
6553	14604	A	7281	1	407	DVCKPDLTVGLRYAPHQKSVVATL EAKYLNWVIAIDLASKAAPPNDNLGTS AQAYYYGRKQEQLL*EADLTGTONSEL ERQMRMEEMENFAVEAANYQDTIGRQLD EINNMKEEMARHLREYQDLLNVKMGD
6554	14605	A	7282	1	3003	MNDIACKHNIKILANRIQHKKLHLHDDQV GIPGMCGQWFNTSKSNTVIQHNRNTDK NHMIISINAETKTDFDQOPFLKTLNLKLG IDGTYLKIIHRAIJYDKPTANIPNGQKLEAF PLKTGTRQGCPCLSSLLNFVLEVLARAIR QEKEIKGIGLQKGEEVKLSLFDADMIVYLE KPIISAQNLLKLTSNFSKVSGYCNVQKS QAFLYTNKRQTESQIMSELPTIASKRJK YLGQLTDRVVKDFLKQYQSLLN
6555	14606	A	7283	2	178	PVRVWNRKVQKQSIISHYGO*IVDKGSR TQ*RKNSVFN**C*DK*IFTCKRMNLYL YFVSSSSSSSSSSSSSSSSSSSSL*EENTGI NLHLDLGFNGNGLDMAPKAQATTA*LYL YF

6556	14607	A	7284	699	2526	MQYNIFQVLYIILDELHGILGQLNTINKFIHRSIVANLDDLDEKTHQLTKLAQEIKNPNRPVTSKEIEPVKINLPVKESPGLENEFTGOVYYGGTY*KKELTLILLELSQRKMEEGJ/VIPVTFYKADITLTPKPDKDLTGNYRPLSLMNIDAKKLKUQIAGQIQQLKMTIQHDQVRFIKEQMOWFHIOQMSIDVYHINRMKGKKHHMITSIDKKKHLTQHJPFMVKTLCRLGRKGNFNLNLIKTSIKTHS*QHNSKTLKIPFLIS**KFLISPLFLNIILEGGLARAIRQEKEI*VQIGRSKTFAEFNVMVLYIKNPESTK*FRLJ**KFSNVAGCKINTQKSKKNLRGN*RQF/PFTIT*KRKYLEINLTKKVQDLDTEKYKTLLKEIKEDLNKWK/NLICWQVGRLNIVKMALLPKLVYRFNTIPKPVTL/FTETEKLTLTEIFIWGLQVN*RYSSLFKTILNNKNGVEGLTSNFKIYKCATSIKTVLCWYKNI*SNRVEWKVQKQITPNUILWSIDWPWPGRSRTO*RKNSVVFN**C*DK*IFTCKRMNLYLYFIPYIJKINSUR*IKDPCKCSVNPIKL*ENTGJNLHDLGFNGFLDMAKAQATIARKKKK
6557	14608	A	7285	2	577	KKIKKNGGSQQEGLTVVNMVYAPNDKPS TYMKQKLT*LKGEDDNSTLIVGVFNITISV VDRT/SQYLSKEI*DFHNTINQLDLTTIYR TLYPTMVKYTFFSSIRINSKIGHKLSLN*F *KTAUNIPPDHNGMNLVIIIPKKKTGKFKN HRN*HTLNU*IKETTRHWLKTPRLWP WORVRFGAQSLQGPOLSTAR
6558	14609	A	7286	17	377	QRKACAPRAWSGDPSACRPSVRS*GTT *GKPVNFDYGDYIIPAVNLKTFRELA ESLLTFQAYDQILGITCEYLWPRRSGGLS PHMLSILYWPMLRWGGRGDVYPSCYC CHMALYGM
6559	14610	A	7287	1	893	SISSQQT*SSWAPCYRSLPASTWASSLCS SSSLSLSSFSFSVYSSPPGSSTPLASLSSAFF *PLDFSSLASVSSLLPSLNLITFVSWLPAS PLSSLAPLASTLVSLPSASSLMSLSPPOS ACLSSPSTSQHACSS/StLSQSLPSTSCLLS LQT*TLPDWGFRSQKGTV*V*ALRKTS SPFSSSTSGLGFAESREQRQLGAKTNCASS RDRSSRCGOSTENST*GTPRSSR*PPGS SSPGEKAAPAASAWAASPSAPTHSGYE LLESSRKEKESCTSWDSESSRAGAKSSP ES
6560	14611	A	7288	827	1393	ACRQRAREDGRVLVQRLCRRGHFVPLQH RRAQAERAPGIAHSSCAEERPRLSLRTDI SSALWVPRASCARSCPEM/GPPPNLKwas GA*TLEECPPLSGSPRKNLD*PPGLEEPS RLEGTPSSALLKG/PAPTYLPPYALEDL PKPTSA/VQHSPSTVPHVLPIPPIPSSWR VVAVGALCSRQDNLHDQPLR
6561	14612	A	7289	104	464	
6562	14613	A	729	209	372	KRKKILRINKTKS*FFEIKINKIYKMLTHL RRDRKRQKSEIKKGDTITDITTEMKK
6563	14614	A	7290	2	394	PRVRNHPIQKWAKKGGLDSHLSKEGPQ/A AISHMKRCPASPATRE/VQIRATGETHLR GCGNIGTLTRC_WCCK/LLQPLWKPFW WFLRLSLSIGLRCDPVATPLLSV/WPQAC KPGTQRDLHTTVFTAALFTVAEAO
6564	14615	A	7291	2	344	DTRTHVAEEDKLAJIVEPEKRGKVYVWF DPLDGSSNIDCLVSVATIFGVTINNSD*P SFNHALST*RNLYLVSLPFLHAFLSTFHL SFLFFFSLFLSFLSYLFLFSSFFF
6565	14616	A	7292	1	348	RYRSGJPGRRTRAGEJPSLLKIOPG/GD GARS*SRLLRRLRQENRNLNPEGRGCS RLCHCTPAWARE*DLSLKKKKFEPKIPY FLTLLWDVFRQYTYSPCMCLCGEMVT

					DI
6566	14617	A	7293	10	436 EYYRFLEAKENRTATY*NLM/MDHAAKAE LRGKFISIYAYIKKLEKFQIKNLTMQSKK LEKF*IKKSSNVFQRARKEQTQPQISQRK *ISEKE*TKLRLNQCHKKSLQPLLS*TK KDNK**MRKEKGDIKLSGRVGRPEYLTQ T
6567	14618	A	7294	2	403 CPTSTSTSW/TM/W/GPACREHL*PLPTFP/P GQQPNL/P/RPTLRP/SP*IPTSACS/RP*/P AVPSRSPHSHPHLPSCPPQFTFVNPHL**G GPHPTHNLPPNPCCPALLQLPGPSTLPRLS P*TPPTPPICHCVSRLP
6568	14619	A	7295	27	88 CREEDDDLVESEDS*QWGESLKRVSFTL LDDEATEDAGDLNVKKNSDEVKSIEFKR QEKEA*VGRKMMT/WLKVKTVNNCEKA
6569	14620	A	7296	109	409 KFRKNMWKLNDTL/LNNHHWWVKEEIKKEIR KYLKRNENKNNTYQNL*DSAKPVLFREV VINAYKIEEGSYISNLTLYLKDLEKEIKA KVNRRKDIRITEEIN
6570	14621	A	7297	13	811 VCRRWSGGLLARRFGSGCCSSCPQRRA ARRSQVQNGKYL/TDQINRSLNLEYPCSS QNCSYCHGVIEELTPTFRGGISRKMMAE VVRRLKGTHYQITKNRLYRENDCMPCSR CSGVEHFILEVIGRLPDME/MVNVRDYP QVP*MDGACHIPS/PSPSVRHQS/DHDIMY PAWTWE/WGTCLANLNSYRSWTEGPL QRSGKVSTQWPWKKKNSTAYFRGSR TSPERDPLLILSRKNPKLVDAEYTKNQA WLSMKDTLKGPAAKDVHVLVDH
6571	14622	A	7298	22	426 IFSPHYFFQQFKLRLPIMFIMHLLGCKVDSL FIFOFCFFHLVFVGFLYYLKLFCYTFKFT NCFLYSFSTVHLI*YIFPSDIMFLYVEV* FKSF*RYLPLCHVHAFISFLNLUISLFS** *TIFYCPYLLFYH
6572	14623	A	7299	131	352 IFLPEKKLYKLEKWDRAFDNT*NFTTK/I HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQGKTFNEGSHLIAQESI VNLFYQIDYCPPFVIGSOLQKVTFFKKK
6573	14624	A	73	702	1281 AVEMLYLVCGTVAIJRSRMSA/CVRLT WSRNAGW/QLN/CFVTFQPCSNHV/LKG/P NYVCFGGYPSFKYSHP/HNFVKTINA/VC GQLVQFRFPDTEEGIRKVTV/KCYVKEG DTVSOFDNIIGK/VQSDKA/SVT/IASPYDGV J/RKL/*HSLDDIA/YGKPLVNIE/TEALKGT VNLFYQIDYCPPFVIGSOLQKVTFFKKK
6574	14625	A	730	24	452 APPSDAMG/HSLWGKVNVEDAGGET/LG RLLVVYPWTQRFDSFGNLSSASA/IMGN PKVKAHKGKVL/TSLGDAIKI/LDDLKGTF AQSELHCDKLHVDPENFKLGNVLTV LAHFGEKF/PEVQASWQKMVTGVASA LSSRYH
6575	14626	A	7300	131	418 ILLTEKKLYKLEK/CGQGF/QHLKLNNIKN HTGEKS*KCKKWDRAFKGWPHFIIGKIV HTEKNFYKGEQGKTFNEGSHLIAQESI YT/KKLSSKYKD
6576	14627	A	7301	305	326 KTFRSQKK*HW/DYIKILNFCARKNTIS KVKRPOTE*EKIFANHISA*G
6577	14628	A	7302	3	416 FLR*IGSHSV/TQAGVWLWRDFGSLS/PLPPG LKLFSCLSLPLSS*DYRRVPPCLAKFCICPS/ VRGFMALRLVLNLS*L*VVCPPCHVD LYN*SASQSAGIKGVSHITWP/IKYHHLK NINVFSYQS/STVNNOQLSSQILLN
6578	14629	A	7303	3	474

6579	14630	A	7304	2	1050	REDTKAAVLLHHHLLHNVRPQDQTVVFV ATKHHAEYLTELTTQRVSACAHYSA LD PTARKINLAKFTLGLKCASTLIVTDLAARGL DIPLLDNVINYSPFAKGLFLHRVGRVA RAGRSGTAYSLVADEPVMQDNLHLFLG PLPHPRPTPQGALRVVWAGVDGHAGVGV PQS VVDEEDSGLOSTLEASLERGLARV ADNAQQQYVRSPAPSPESIKRAKEMDL VGLGLHPLFSSRFEEELQLLDLVNSIKN YRSRATIFENASSRDLCSQVMRAKRQK DRKAIAJRFQQQQQRQEQEQQEGPVGPAPS RPA LQEOKPEKEEEEAEAGEK CEDIFSEVG GRKRSQSGPNB
6580	14631	A	7305	3	872	PKSWNGPPHPGHRHSRHSHNFSGCSVD EEGRSRTSKDSSSPVNDRGRQ*MR*KNP FAASSRSTSSSSSSSPSPPLWSTAGRPTT TRSGPSPALDKVQYMEHLLATAST/EPA GSAAHVPGHLFRAE*VLPAL*GRALLGTP VTHNLLGEIAKPSLSQSRLKAAS/AKY PHDVVNHLSCDEARNHYGRRGQPHPPH PRTK*KNGSPTRCSRCCST*VSPRKT RRAPGDPVLPLRP*GPSPGPLNTSVDSSQ KPASNPGDVQNHPGGLLVGNCNSEPGA PSA SF AV
6581	14632	A	7306	99	433	KLKVKGKGRYRM LTLIKRK*H*IKJQNSC VF LYTSN*ELENK/IFGRYV S FMIA*KIKS/ LGHLMKDV*N LHSEDYERLLT KIKDDSN KWTDMQFTRR*YHKMLLKK*PIIY
6582	14633	A	7307	18	146	LHD SNTRSPQFQKS LGFSTGRHRCPV*EG L/RSVTQAGVQWPPIHSSLQPRPPGLQS DP PASACQAARTLCRWY
6583	14634	A	7308	1	240	LVC LSKSECLCQLP FVHHLTLKNCQFHLC RILLHFQC*KQALRHGKACPLCHCCSHA ALYMI CLAKED*KTFDPQELMYSL
6584	14635	A	7309	2	1790	ANQLOGEGVRFFVVDCRPAEQYGA GHIL STAFHLDSDLMLQNPS EF/DTA IL*SILEA OKQSIESGSIAGG EHLCFMGS GREEEDM YMMMVLAHFLQNKNTYEV SIASGGF M AL QHHLADIN VDG PENG YGHWIA STRSRS QNSV DGE SP/KWLCKLRWILKHQV
6585	14636	A	731	99	641	APSPDAMGHFTEEDKATITS LWG KV NVE DAGGETLGRLLVVYVPTORFFD SFGN LLS SASAIMG/NTPVKVKAH GKKV TLS GDAI KHLDDLKGTF AQL SELH CDKL HVDP ENF KLLGNV LVT VLA IFHFGK /EFT PEV QAS W QKMAEDV TGV ASALASTYPLSSLAHD S ELSDR RLLFC KQIKI
6586	14637	A	7310	1	1424	ARI LLNDHY AME K LKKR V LEY LA VRQ L KNNL K GPIL CFV GPPGV GK TS V GR SV A K TL GREF HRI AL GG VCD QSD IRG HRR TY V GSIM PG RIU NG LK TV GV VN P VFL D E V DKL GKS LS QGD PAA ALL *EV LD P EQ NH N FID HI LN V AF DL SQ VL FI AT AN T L A T I P A A L L D R M E I J Q V P G Y T Q E E K I E A H R H L I P K Q L E Q H G L T P Q Q I Q P Q V T T F *I I T R Y T R E A G V R S L D R I N L G P L C R A V A V K V A *G Q R T E P W T V L M *L R E K V A E N T S *K M K N L N S /RDT TD L A L P P E M P I L I D F H A L K D I L G P P M Y E M E V S Q R L S Q P G V A I G L A W T P L G G E I I F V E A S R L D G E G O L I L T G P S S G T V M K E S A H L A I S W L R K Q R K E S T K L T N A F G S F D L L D N T D I H L H F P A G A V T K D G P S C W E V T I S N L R P Q L F S G R L V R S D V A M T G E I T L R G L A L P V G K I D K V L A A H R A G L K Q V I I P R
6587	14638	B	7311	169	379	V S Q R L S Q P G V A I G L A W T P L G G E I M F V E A S R M D G E G Q L T L T G Q L G D V M K E S A H L A I Q L G S A A T Q R S T Q L T N X *

6588	14639	A	7312	3	411	HIFILTCRIKNKINYTIATKTIKYLRINLNRN F*SLTPKPLLDIKVDLNKWKNISYSWL R*FKLTNISVLPIIYVNPKI*KINTTFIKLD KLMPKF*KNKHVKIGRK/ITKKSYKG LTLSDIKYTYKVSIKTV
6589	14640	A	7313	2	423	SPLPLPPFLPPCSSPQGPQLLRKAIRPWPG TCPYPASTQVGEFTLRTRQLSFGVG*EEG CPYPSPADSPMSEDPGAAPHHPRLPL* NR/CSKGKTAFAFWAPASHLASPLQPTG LPGKRNNMLSVPNNTPQPDAWVAPE
6590	14641	A	7314	2	416	LSLTLFQNHCLWLSSQLLTSHCQHYCC SSKNKNNNLAWLILLKLFLYNLEA*FIHLA VIFLYSLCLGFTALYEFVCFLLLVLRSY SVLLFLSF/LFWNFNTFHILLCPICLNNF VLLFMYFSFSVILQFGYFLFLCLQ
6591	14642	A	7315	2	411	RQGLTLSHGPEVQWHDLSSLQPLPPGLK KIPPPASRVAQNNTDVHHHAWLVFPPPF VRRGFAIAVQAQAVLNQPLQACPPMASP KCWDYRRGPHPFAQE*EHFLRSLPSTGE SYFGEL*HISTRKIKLVLHFEETN
6592	14643	A	7316	2	333	TEPALSPRLCGSGTISAHCKLR/LPGFMLF SCLSPLSSVWDYRGPPIPAGFFVFLSRKT GHFC/RLARDGLDLTS*SARLGFPKCW/ DYRRDPPMGPVSPNRMENLMETVD
6593	14644	A	7317	3	232	AASTPRPLRFPLSPTRGLVPN*RPRRRRT SSAAUTPAPEPAPTSARPTRSNTHRRSLP WSSSRVTEEMQSAAKHNG
6594	14645	A	7318	1	385	IPWSRVRG*NHPVCKNAHLPLKAVSKFKTISI KKPPLFFPRMEKTIKLFLWDSSSSSSLPV *****SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSPTHKIKPNTYRQLID KANKN
6595	14646	A	7319	2	409	DRKEERLRSRSGAAATMSSGGKGVAE WDPLPCLDPELWDQFDNLLENHSL EKFII SAKERTEIELSYTKQLRNLLKTCOPKRN WKEKEYIT*NSPSLFWNKMSDHARQH*V IFFEVLNFOITVELQGHVQNOKQE
6596	14647	A	732	154	411	AGQPGPEGIOLG*PQIRDKGDQMGPPIPC W*VCGTILTPTNSP*VFCCVAGRDGAGPV KAHFPAAQKPWDGGFPGP*SAGVGPPPI PR
6597	14648	A	7320	58	501	DPRVRPGITGRGRSGTAGGETTWEGPFGV IVRVLMLPSYELRAEALGEVVGAGGPRGA RRPSQTETAA*PASRFVRGLGPQTLRPTS PGPRSRSPRLLGDEPPIRRVGAGSFPTRN GSGAWALWRRPCWECSSRSFLRTTKLF LFFGFG

6598	14649	A	7321	381	2378	AASMEHIQCAWKTISNGFGFKDAVFDGS SCSPTIVQQFGYQRRAASDDGKLTDPPF*T SNTIRVFLPNKQRTVVNNVRNGMSLHDCI MKALKVRLQLQPECACAVFRLLEHHKCKK ARLDWTNTDAASLIQEELQVDFLDHVPLT THINFARKTFLKLALFCDCICOKFLLNGFRC QTCGYKFHEHGSTKVPTMCVWDWSNIRQ LLFPNSTIGDSGVPALPSLTMRMRMRESV SRMPVSSQHRYSTPHAFITFTNTSSPSEG LSQRQRSTSTPVHMVSTILPVDSRMIE DAIRSHSESASAPSALSSSPNNSLPTGWSQ PKTPVPAQRERAPVSGTQEKNKJURPRGQ RDSSYYWEIEASEVMIISTRIGSGSFGT VYKGKWHVNVAVKILKVVDPTPEQFQ AFRNEAVLRKTRHVNIILFMGYMTKD NLAVTQWCEGSSLYKHILHVQETKFQFM FQLUDIARQTAQGMDFYLHAKNIIHRDMK SNINFHLIEGLTS*KFGDFPQFAATVKSRWS GSQQVEQPTGSQLVWMAPEVIRUMQDN PFSSQSDVVSYSYGRICMELDGRGELPY SHINNRQFRSIFHGWRGRYASPDLSKL YKNCPKAMKRLVADCVKVVKEERPLF VQLAISIELLQHSLPKINRSASEPSLHRA AHTEDINACTLTVSSPRLAGLP
6599	14650	A	7322	3	419	EPQWIQALMPEKEPAROSRGGAALRTDSS EPSRNVEKKTISFILAKRTYLEIYATQDA *NLCTEKYKIFLKGIEKRTKWKDILQS WTRKHNVKMAKLPKIFIYSFTICIKMPLS FYKLILIPMRKYKGCRANTI*REP
6600	14651	A	7323	3	222	DAWVTSNADKEFEKJQHPLMIKLLSKS* VYINMSYIYPLPKIHKGIYDKSLVNIIILNVE KLKAFFLRLTGTRER
6601	14652	A	7324	2	395	GROPRWRWLWGQQLLSSGRRLPEPGWHRP SRGERGHHASFPPEPGCPGQPQORPOF*V PVPEVPPKGQPEPRSSGRKASGPQAQPPP AGDGARERRQSQQLPEEDDCMLNPSFK QIAFNSLLAJICMSKRL
6602	14653	A	7325	63	451	KNQEQESEETLPNLVYKASITLIPKLDTQ K*KKRKEKKKKKKKQEN*KPIITHRNLYAK ILNKLAHQHQYIGKUHHDQVGCIPI/GAF DKQYRCMIR/TLOKMGIEGTHLNIIKAY IRPTDSIIENREKP
6603	14654	A	7326	2	137	SKAKINGWDVPLKCYWTAKKAISGVKR QPTEW/EKIFAN*SSDRR
6604	14655	A	7327	755	1287	GGWDFAFAEGRERLAPCQJWDPSCLPTH W*PLSGLLSRPPPGTQSPQLSPYSCAKSW CPCLSPSPGSPMN*PSVPRTTGPSHPEPSA HGSHTSPIVATTERAPERISGGDSLGLSPS GLEGVNREPLFTPPSSS05SVSLSMSSTP PAGHSAA*SPQPGRCSCSGPAQGQATSRSV RGF

6605	14656	A	7328	I	2239	MEERKGHKEIHLRLKVRILSVRMSAIK ESPRLIGNQEPLKQLKQESKMNRVVFN TDYSGCIRLJSQRSLSHFPESSGQCNPKPY MRKFKTPMLIAEEKYRQKQEEJKQQE SSYYNIVKTOSQNQHTEVEKEMPLQKT NEEVSLSGIDSECTVUQPSPGSQSNDARIL GVCSNDNQLSTTSPEVAAKRJLHHVLAAS EDKDKMKKEVLQSERDIMQSKSACEIKQ SHQECSQTQKQKYLEQQLHLPQSIPKISP NFKQSEIEVQFTFKQYOLTKKKTEASTE CSHKQSLAERHYQLPKKEKRVTVQLPT SIQKNNQEDKLKMVPRKQREFSGSDRGLK PGSEEKNQGPMSGRKBEERLITERKHEHL KNKSAVKVVKQKVDAHLDSTOTQNFQQ TQNQTAESKAEEHKKLPQFYNSLQEEKC LEVKGIOEKQVFSNTKDSKQEITQNKSF SSVKESOARDGDKGALNIVFPRKREELQ QILSKWQFEEAPNKSQGLKTFTQLLNTIP GWLISEDKREYAVHIANMENNLLEKVEEI THIKTOAEDMLVSYENIQTAMMSKKTG KPANGA/ALVSTKTPSKVSNVHVSNEN SEQKENIAKEKTVQHQVAAHDEATVRS HVKTHQEIKLDDNSNIPLPL*KHSPSPPTFI TIESTARRTENPTKNELSQSPKDDSYVEP PPRPPMSQKSEIHRANTSPPSPRSRSEQL VRLKDITTAKLSKGAIPCPAATPVPIVEKR SEIIMSPATL
6606	14657	C	7329	110	298	MPWISEGRTARPCRLRVPSARRGDEGLHQ RATANSVYKSRTWLWICKPPQSSSPK ISERKF*
6607	14658	A	733	233	353	STAPGSGRQRTVSEEP*PHSTEDGQRGQ WGRTSLQHQAQD
6608	14659	A	7330	127	742	LVRVFPWRERDKVWHCQE/CRPKR*KS KPGLSGPV/APGHGSWVSDTETTEATGILLI PGPTRRPPTLYHTPCCLSVPRW/CRPSSL LAEGTRRQGLVALPSLJHGIOPMGLEVV GLASPPIPGRKWHR*KDKMATOALSVC RA*TCLLPPSTKTSRPRPHSTPRGPAPTIV QRNSRRVNKGSPESPPLPRGLPVSEPHVA GTRTARDG
6609	14660	A	7331	2	433	FEDK*VIGVKVKKMMSKQRGNINKGKJK RNQKEIVELKSTVTUKNLLGGFKNRL*Q TDK*ISYF/EDTTVEISQSGKQSSRLEGR EQSLKNLWNTIKLTRVYTGVSEKEKKE QIV*KISAGNFSNLJKNMNINIQEAQRTP
6610	14661	A	7332	1	281	PR/PDRDSEAPGADGAGPRGALPVPGGH GQDPAEDGPGVHAGGARDGGDPARGA YPPMPSTRGCRKGSLANL/P/VGFQYVH PFT*FFGVTAKIQRMDQVFTLAVRETE ALIPPEVPTROCPAHEAVGKVHWLICHS WFSCIPSLFLISRAQYFYP
6611	14662	A	7333	33	427	GSPAPGLPKGWGFRGGPPGPKFVFFKL PKGGFPGAEIIFLGEF*QRGKKGGLPFI VFLKTEEGGTLNS/NSFFKGRVFLVFVKPKA GSSSSSSSPNYKPIYLNTDTKFFNNMLA NR*QCIKEVMOYDTRG
6612	14663	A	7334	491	731	DRGLCLPTLEVQWAAPILGSLOPPPFGFKQ FSCLSLPNSWDYRCMPTCPANFFVFCIF **SRFHQVGQAGVYQLTSSDL
6613	14664	A	7335	2	575	AGQVGQLGPFGWAGGEGRGRPPLL*LSL PGRLPREEGLTSVSGHPCWP/DSFPGLP GVEPQGNLIAGGALLPKLQRQSGPGNH KTLPLSRGPADPGAVPVCHSTVGRG*HS LALIJTVPPEKFNIYFTTCPENSSFSNLLP FRSSLEGIQAGVSSAWGHSGAGPGLLGS GDGRQRQARRPSLHSCLPCSP

6614	14665	A	7336	19	422	GEKTDKIOPHMLIKTLTNLGIEKAYISIIK VIHNRPMACIJIANGAKVKAFFPVRSERQRC SPSPLLNFNIGLKVPVRAJEKEKEMKG!IG KKEIKLCLSGNDMTLYLKHPKNSTKTR TDTFSKVAGYKNTDAWV
6615	14666	A	7337	33	193	GNGETLMDIGLGEKFMTKTSKAQATKP KJD/WDLN*KSFCITDTNMHMVLJYL
6616	14667	A	7338	87	713	DIVYNCFGFASRKTIDCLSTRIPCFERTSS NST*TNQNLTAFL*KYDCATVQACRSRNK WEVRDALNKFGSTNSIPIYIIKRFYIYIYIF FFFFFFFFFFSHSVQAQAGMOWRNGLSLPA PPPGFIPPCCPSSLKWLGPTRRPP/RQT ANFFVLLVETGFTMLARMVLS*PRDPP /ASASQSAEITGVSHCTRLKIRFAKGHV EFFFESHVE
6617	14668	A	7339	2	105	ENGWCWIATYGWRKLLDSYLSLHARVNS R/WDDLGLGETMELLEENLGEVLLDQLG /KEFMTKTPKADSTEIKNR*DSYIWKNE NWPISHYMQELTQEGLGSRN
6618	14669	A	734	1017	1880	TLAKWWTREQRSQLSTQASSYYHOWQR VGAGCQAAARMRSAPAVITPRGFVFHQS LESASNSRLQPVTSTGHRSAPLEAGLTG CVLMPGCSAQASQASMEHLHSWSPCPDFCT YRVLRLSCPLCNCSRDPGPEKENHQOEP AAVRSQPEGFEGGTRAGRPREPGOOPHLQ EPKASETHNPGIPSREGAAAOGHLOGSG THVRGKQPSAAGPGRIARVLSGPPGPR ARGRGCADGS*ASPRASSCRSGRSRA AAPRRRRGGAGAACRACARGCAGG*AGS AARGSSGR
6619	14670	A	7340	2	362	STHETFSKIDHMMSTLSKIKETIVLSSIP SSSSSSSSSSHSKSNLQNYNTNTWK/LNLQ NDF*VNNEIKMET*KFFEMNDNDTISYQS LWDTAKAVLR*NRKDHKLT*HLKELQ KHEQTQS
6620	14671	A	7341	58	341	IKKFRWGPKPPLKEPPGV/SPDPPI/NFGN PGPVGPKDGFKPFPNFSSSPVGGRAPPVVP TTPGG*MGRFP*PFAFGVPRGGDGSPPPG APEKGPLS
6621	14672	A	7342	2	428	FLLRVSLYCOAGVQWPSTSVETEPPPFGK *FSCLTLPSSWDYRRAPPRPAKFCIJM* RLVFTILARMVSI*PCEPPASAOSAQSIT GVSHRAGLVLFNKPVTOLGFDSHPYH SQuISEKDPPPISSIFNIKKSIHTNLLUPN
6622	14673	A	7343	2	686	PGPPEVVRQHIVPGTTRGRAIWPGSFP VGPFPLHRAQGRGQSPFPFFPOGTKGGLGLE WKGCCCHAGAQETGSPPLIMVHFSGSWE MVSRGKPS*QLEA*GRGRAPGLGSKAG PRLHQDTPASQCMVVCLNTPSRQRVRG PDTOGYVCVPLPPQPHAPRMNQQLPFG APPFFFFPSLVPKYFPPSQQSWDRKIPRLQ APCPCCRHI/GPPS/AVTNALPNPGPRLSEA PWLG
6623	14674	A	7344	1	603	SGCRRCGPWPACWTPQKGFRGGRKRR SGLWGLCCWCVRPHSHRAGCHHQDGE CDRWGILLPRDHSLR.WIFLRYNWHQJGG E^KANAGGSDRVYQFWG/AGGPSAAPS AAYLQHSTLNRGSPREDASFTPVGWGT CTMSTRQSPVTPWTASAS*R*EATPT AVTSMAGAQSPPRPTMSSSASAAARTG CTWNGFWAL

6624	14675	A	7346	19	1562	GRYWRVVDHGRESRVSGPRFRPISFLAAL LPPGRHPWPWDAAAGGSPAS*GGAA*S ALGLSQPRPPGASDAAAPDSTPAGV*TASS SALIPSRAR*KSGTLEETKSPPHSRS GPVLDLSPRSSHSRUDSTP/VHGPYFRSADPP  GAPRPSAGSQQLGGGGSSGPGNSIPCAF VQQ*LER*A*RSHS/SPGEHRRAS*SGGLR OGVQGIEVFGLGHPPGGYSCGPQPKES PPAHLGVIEWCRGLYIGWKSHSPHPA LAEDWQPVPPAAMAVGAPGLRRIQRITS RRWGOCNEAGHAADPRDSGPPGNYQP VSLHILHMDPGTC*PE*QOH*RPPL*MAG KQWPCT*LDKQSQLGLAGSHIQHQYCQCW W*QOLQSHSLCRSPPK*RASASPC*AS WGRRSSAGAAGFRAJGR*HJ.GTSPLPGSAG SLPPCTAEFPADASP*LSPTVLAELGSEG ASEECHSCPHGSPQSLSGSRHRAESQSYH VER/WKQDMGPISVKSPTRRGPTSGSGL LRALARSSL
6625	14676	A	7347	473	792	MALARALDARFLRWCRDOPLVYHSP*PP GASDAAPDSTPAGV*TASSSAPAGEKDAA NOMEWARV/VRPRAFFPGSPGPSPKRAR *KSGTLEENKSRPFTQSPPGAG
6626	14677	A	7348	3	411	LCAAVNRALDEGIPLTSALEYATVLDQ VRNLRSSTDVSMLVEERHRMLYDTG KILLEFGGGCFNCVRESENSAQLMHS WAECSPSYRDVTLEVGKRAFSYKRTQIL VSYTCIVLEGK*DACLQDILSITML
6627	14678	A	7349	2	331	AGGPGLCPVPHLPAGARAWRQQPG ACCPGRRLLPL/GKPSPGSSRSSRQRGQS CRTSVLPSPSGC/RGSQVRPDLPGPKA EGCSPWGLRAEASCATGARVRCHRCVV
6628	14679	A	735	1000	1211	VSTVLDALHILFCLSISFLKNKLGWCGSGL TPVIBGLWEAEAGGILLESQEFGTRLVNM AKPLCY*KYKLA
6629	14680	A	7350	1	1062	EAGPGQAARSQRGSSGLVLVPLRLQR CGAPEGHASPTPAGPGAPNQLAAPWLL WPCA*PPGLCYVAPPFFFFPKHP/GLLPA PRALPSPRELPGEEPSAHPVHQG/PSCRA TRPASASFKSHSGEFRQGLISAHHILQELP GPAGENFQKVFNAGAAGPAARHGPSSRS SC/PC/HTGTSGNREKPLSTSKSKNNKKS WQATTQAGPGPLCPVPHIPAKQVLAHGD ASKPPGAACCPGRRLPL/GKPSPGSSRSS RQRQSCRTVSVLPSPSGPLPGTKVRPW *GHILASLVWPGPPGKSPGQSTRPVGTLK RGVHGRPLQVVGQSFAILVLFGRQGEG RAGMLGTCCLLAKPEVTV
6630	14681	A	7351	423	826	QKVAHT/CLRGTCI*IFTLHLCVRLGLCW LLCGEMCM**MCKYVCMECKCCFVFG RC/M**CVCAAGDREHLAECVRCVFRHW CTR4*VRMC/CVCT/C/LCV/CV*VSGVCI CKSPCVLCKSIVN/CV*A*THTWFCVHV V
6631	14682	A	7352	310	863	STHLSLPKCWGLQATLАОQPNRSLLK YKFYIMSI*GHYSVKVEKQPTEWGRKIF WQTMVSG*GGLESRIYKELLOLSNKKTN A*LKSGAKAQHRSFREHTHMGQQHQ QRCLIASLIREMOMQJMT/URGYFTLJRMIT RKSDNN**CWOCAEIGTLL/HYWWCEC MVHGRGKIVWOFKLNIQLP
6632	14683	A	7353	3	357	SISNEINFPTKESQGPETITGEFYQTFE/DLS PILLKLFQITD*AGTLPSSFYEISITIPKPE* KSQEENSYSAMYLMMNIDTKIFHKULATQI*P YINVIIHYDQV/GFIPGMQSSFNIN
6633	14684	A	7354	2	207	GRWDHTHPGLPRPLCPHSPIPDF/PQRM*SH SAVGASGLADPYERIVVS*DGNSSSPNH QGDGASQTSGEQI

6634	14685	A	7355	1	801	QPRDPSSGTHHPDGRGGQPAPICPRQG SCSHSPLEHACPIL,PGPSWPWRWL/DLJ. SLLGDPKVGGPPIACPPGSPPHAWTGPVA CGPLGQPCSCPILPHIPICQHPKAPGGH PLCSKLLITCLPATPAVPSQPGHHIPLFIM SGLMGAWPSPEAGPGVLPSTWTAEGTR HWTHEEEAALGATDAVTSPGFGRQVP APRMPAWKCPICRGLLHSILPSEKPLQVH RECVQPCCEGLGLAQTGAPQAQAWGPT DLSPOLPHRKHLK
6635	14686	A	7356	3	926	SSGTRJPDGDRGGQPAPICPRQGSCSHSP LEHACPCLNGLPGPSWPWRWL/DLSSLGD PKVGGPPIACPPGSPPHAWTGP/LWPVRAL ASPAAAAPPLIIPHIPICQHPKAPGGHPLCS KLLTCLPATPAVPSQPAHITPCSLCQASW EPGLLQLKALAPAUPKLHDHVGPRESQPGGP VGVPVCTPKSRSPCTCDTPTPLPGNLNEER ATGHMRKRLP WELLMM/PVTSPWLWAA GPT*DACLEMISLHSWPPSQPPREKPLR SAQGVCAAL*RAGTTPLRLGLRHKAW GPTDLSPLQLPPQKA SKINTROMESVK
6636	14687	B	7357	73	255	XGSSEQQDTCSNPQPGCSPSTGNPEWGLR DTALLELDLGKASGLLERMVDMPANNK CLPRKN*
6637	14688	A	7358	1	710	PIEITSQCGGIPRFAPITVGVRSVSLPHHS RGEGLQPPPQSQC*GSPAS/HHHSGEGL QPPPSQSG*GSQPPPSQSG*GSPASGPFG CWQ/RP/LPLSCYSYSGALQSSRTPAQ QGAHIIHLRQISGPVHGGPPAPSPSCILLP/ SLRVLPPLGILAPPATSTVCPLPVCTPP WVICOPPYPLAHQAGLGL*PLPGDREGVP FHSPNPSLQLVCPRP\PLRKPRPWSSGLGPH AHNPMPMSGRSPPRATWTLT
6638	14689	A	7359	3	750	GRGAEQGSHILARA AAVPGSGPWA RPRP RQGLGLRPARSALARGLPGRVAAVR GPALPGQQ/HLQSSRTPA/PNPQPCSSPTG EGVPFHSPNPS/H/GKSVPGSSKGYPDILGP VGLCPHASPMPMSMGRSPPR/GKRLG*P DAQMQEP/SKWGLSGHSPGGPGKQGW PAPGEDGHHASQQQMPLDEKLSPSFTP AHLHSLEPA/VRHEPCLPR/HGPCGRQP HPVCAHRARRAQPQAQNKA C PAA GKK KKKPVPN
6639	14690	A	736	109	346	PRSLSPHRPAPPSSVVGFRPRGKRG TQG DKGKCLGYRGPQQL*PHGTPGPTQGRR ARGCYLQPGAWGPLSPPWEDV
6640	14691	A	7360	102	380	GKKIPMLYFAEI EKCI LKFV KRS*KAK* LPKNNKAGGLKFPDFKTYKAAASKHQ VGGI,WKELRSTLQ,AQQTWVPREELRST SPSYQTQVQ
6641	14692	A	7361	190	375	VIVRVSIIISIKIPIITFTIEKTYNLG/WND NRP*IPKAISL,*NKVGDIPLDYEEYHLM MN
6642	14693	A	7362	102	345	GKKIPMLYFAEI EKCI LKFV KRS*KAK* LPKNNRAGGLKFPDFKTYKAAASKHQ VGGI,WKELRSTLQ,AQQTWVPREELR
6643	14694	A	7363	12	380	DPTVCCCLQEHI,TFKDTHRLVKVS WKKI LHANRNQKKAGIAKLI S D KIDFKSKTVK RDI* *MIRASIHPRLINSYU/WAPNIGT* HKLKD LKGGINCNTTIVGDFNTVIR*SRQ KINKHWA
6644	14695	A	7364	3	298	RSS/NSVAQAGVQWRDLSLQAPPNGFT PFS*LSLPSSRDYRCIPLPCLANFLYF**RL GFTVLARMVLIS*PSDPPTSASESAGITGV SHCAWPISFS

6645	14696	A	7365	82	526 NHSELOLKLRLVA*KMKCTADLSILLEKDT *IKLEENR*QERIMLRAEVENIEJENKININ KTGGSSSKYYKIDNPLTRSRRKWT*ITS FRNEKGGSVTNPTEIKRTVKY/YEEKLY ANKFFNNLDEMKKFLKHNLPKLTQKINR KSECS
6646	14697	A	7366	146	588 LPQVMAEFRNNPGEVEGRGAKASMKGQT TGKNQDNPVIDEIDFLEAFKNIQPSSULFE ASLGLMGKPVWDWEIIGGLEDVKPEVKT AH/WSLRQKSOSHCPV/GARLPTGLLATL GSGSGSGRATEAVSGPAG*KRASIGGSS QRRRFPTV
6647	14698	A	7367	2	1041 CREAAMIALLHISEKDNPVIDEIDFLEAF KNOQSSFSRSVIGLMMDKPKPDWEEIGGLE DVKLKLKQSNEPLTTPWFVRMGLTQP KGVLLYGPPGCAKTTVRALATSCHSFCF VSVSAGDLFSPVVGDSEKVLSQSFQRQAR ASTPAILFLDEIDSILGAS/RQPSKTCDCDV QERVLSVLLNELYGVGLKTIERRGKSSS QQEFEQEVFNRSVMIAATNRPDVLDTAL LRPGRLDKIIYIPPPDHKAIRLSIVKRIYK KPCPIGPDVSLENLAETCFPSGADLERNL CTEAALLAIQENWTRPQLTVKQEHVFVN HRLI*NRSVKVARTWLWYMRKTYLRKDF LTVEGI
6648	14699	A	7368	I	2046
6649	14700	A	7369	I	4340 MSAFESVPDDDEEVVDVDAVPENKLTFDNL AEGFRLFKTAZCFLYHMDLSMNEEDIKE VKEEIDPDEEESPCKKKHLDKKRKLKEMF DAEYDEGESTYFDDLKGECKQAAQCLG GRSSVSMQAHRPRPVVHGGSQCSDPAAM LTTVAEFTTGGVILQRGGLQQSWQAPIF MDVGEWEQRNWRLNCRKLLWGFAER SREMPPLLVEEVESKGFEIRERTEGRAV GIKSRSKSGWCLGCPRTENQACLQLSD NSDPRAL
6650	14701	A	737	134	387 PRSLSPHRPAPPSSVLSGFTRGRKGNQG ROGEVSWGTGGPQLWPHGTPGPTQGR RARGCYLQPAGSPFRLPPWECDV*ERG
6651	14702	A	7370	18	731 KEELYGDFENLQTGDVH*GKFGFDLSLNE DVQJ*QEQEIDPDEEESAKKKHLDKKRKL KEMFDAEYDEGESTYFDDLKGECKQAKRS TGKQHTRFPAPRPHVQLNHAEFEDQD DEARVQYEGFRPGMYVCVEIENVPCEVF *NFDFPRYPIIQLGLNSEGNNVEHVRQMRL KKHWYKKIUKSODPFISVGGRRQFTI PLVYIEDHNGQRQLLKYTPOQHMHCQAA /FWGKI*LO*LAYCRD
6652	14703	A	7371	97	373 TVESEYFLLLLFLFFRQSLALLPRLECS VKIAHS*NVKLDDSSDLPDSASRVAGIA GACHQAAQLIIFIFVEMGSCLSSFLSVGL NOLF
6653	14704	A	7372	I	464 LVFFFSWCLFVCLFVLTKEHSIAQAGVO* RDLSLSSQPPPGFNRFSCLSLSSWDYRR A/PTMPN*FVCWPAGLKLLTSGDPPASAS PSVGGITGVSHCAQPRIVSFITSNIILKFNS LSKGCLIEAYFDKTVKATVLEYLALRNP KPEEHWGFLY
6654	14705	A	7373	181	652 QNRDVHPAASPNSPAAQGS*RAKTHS'E GPLSVPGPSPA/APSRL*EQNPKPKHSL P**LSSQLGSPLEDVGNDTLLSRHKPQSP PSRGRPRPSEGTRLHPTEPORLRSRQOPTI TAHVVLPMPLPTPPAAHACPPLPTHAR GTSSKQAEPPPSACs

6655	14706	A	7374	56	480	TRPTEHKLKSSAVSPGFCRWPPSAKAE SPA VPRSNPAAGAATIAVRSRWSGPGEPR CPLQTTASVRCA PMHRRPVGDACSPPPV *ACRAAARLGPREGPPWDPQSPOSRAEQ KMLPVFGRASDAPFIDKKGFCLISCCG
6656	14707	A	7375	265	2253	LSILSHCKRGVGWLFTV ALGWHDHEQP CAPSTHGRAQPE/GPRVLPGRSSRP/GTQ TLAAPQPEPGECTSQA RS QGPVSPHKAG SEA QES*EGSED P QD*ELQ QERTAKN ILG KRLFQ*I LYCHSHLGE GP QT*NP GERRV *PPEFGLGCQ*D/STLLAEGSGW RGP/P WPAGASTPLEAQAPV AGGCOPPAELPP QPGGAGHGPGRPGGGSLGIQAGG*QGP** PHPSGPA*PSA*GPRESRRIPSGRSQPAVS GP GW AWHCPASGP GTSSFEPQLWLWP LPGLGQQRPPRLS.AARGPQAHGPPRGP FSPSGDRHGPAGGAFAVHPARHQ*RPAV AGVTQPGAVQ LLLP H RAGPLQGPGLGS LA WASE CEP SPLL ALP RAS WLO TENW COWLPPPSQVVSCLGNRQ*RPDAFAQGIP LRGAPLGPRLPWRLI ARAPAGPWGAP SQ CQLPWGRHPSGHL SACPGL/GGSV S GPSSGGPAGS PPTGPSGAPGSAG*GP GM AO GGPOEL*GO GP KAGEADSPSPWPC L QGP GL WAPL PRAL DAPP AWY VY PRP ASAGGSPCAAPRSPPAASPAFAGSF/SA APACSLITLKQDG GPGSISGPASFLQ LA W PPG FHPARLI GPSA REA RAGSPG PAGF SAGRGFPFWLSAAGCPVSPAA
6657	14708	A	7376	58	412	RPA CGG CSTRGTCEWARPSAACPQTAAG GACSPWT PAPRSPAGRSWASSWP G*C WAPPSGHGAQ QPS PSS GO WVMR WAP AS/WLPSGATGP RFL ALTGIVPAGPRS PSPSPTTORF
6658	14709	A	7377	1	1548	DKDN SGPTV LH LTAR GHPKVV NWL LH HGGDPTAATDMGALP JHYAAA KGD FP SLR LL VRH YPEGV NAQ TIC NGAT PLY LAC QE GH LEV T QYL VQEC GAD PHA RD MTP L HAA A OM GHSP VV WLV SCD T D VSL SEQ DKD GAT A THF A ASR GH SKV SWL L LHG GEI S ADL WGT AL YDA A ENGE LEC CQ JLV VNG A ELE VDR RDG Y A A DLS DF NGHS HCTH CLR VEN LS MEH CVL SRD PS VE LEAK QP DSG M S PNTT V SV QP LN FDL SSPTLS N YD CS SSS HSI K GOH PPR GLS /K H *SCR HT EL HG H AE P RGA P AL GH D WE AHT PT P T QL P AT PAPR HPT APT PT *LPI SQ AS CT GS *HL HAD QE QT P P R G D IR GP QE GA E/PPA T AT T G Y G K T PA SP ALS AS SPAR GTT GS W AA P A RR W SHAR A W RT ARR RNSL GTT CL TA AP RT P T P R PG SSS CR R R R R C P R P R V R R R S RL CP S R A L A AG SA APP R P P A A P SL ST
6659	14710	A	7378	2601	4758	
6660	14711	A	7379	1	741	
6661	14712	A	738	33	509	VSVSVGLRPWP ELOVW VLCV PRG QAKT R LEPAGRAPEA P I P A L S V LAGG SD S D S R F R QSLSSA A A P G A D S L G A R T E L R V E P G P S R P R P R P R P R P S W T I A T A D A S R R A A G A R G R G N E S A G S G A E V R S E Q K V K R E S I G N R * K R K N K T H S K R K K T L Q Q K G
6662	14713	A	7380	3	5650	
6663	14714	A	7381	1	1131	
6664	14715	A	7382	421	582	LPG A QGM P R P G V Q *PS GLH I P Q G G S T R T S GLKAM R S P P K N H Q V P D S R A G P W A Y C

6665	14716	A	7383	3795	5290	WNWTIVHGDSAGQGPWLHLFCHKRQH GQISWPPLVQREGDRDEHFRNQRERAPPAG REQTAVQKPQREMFCNSTGRLPGOPTEE IQV*RV*RPHKIYAAEEROFKEEKLAEQL KOAEELRQYKVLVHSQRELTJQLREKL ERGDASRSNLNHOQALLTPDKPDKSQGQ DLQFOLAEGRCLAQQLFQKLSPENDEDE DEDVQVEEAEKVLESSAPREVQKAESK VPEDSLEECAICTSNSHSPCDSNOPHKN NITFEEDEVNSTLTVRDRESSHDECODAV NILPVPGPTSSATNVSMVVSAGPLSSKEA EMNILENEKILHPQLAEKKQQFRNLKEK CFTVQLACFLANQNK YKVEECKDLIKS MLRNERQFKEEKLAEQLKQAEELRMGS GRYLNNEHFVFTENDEDEDEDVQVEEAE KVLESSAPREVQKAESKVPEDSLEECAI TCNSHGPDCDSNQPHKNINNITFEEDKVNS ALVVDRDESSHDECODAVNILP
6666	14717	A	7384	125	605	EAAEALENQSOPCDTG/PQSAFPSSGTQH PRSQLSOCKQRYQDQLQEKLLLSEATVFA QANELEX*RVISEPLLQDSDKQVQVDL QDLGHETCGQSKNEABQEETWPPAYL VPRAPSCRPSEQSRRGRYRPFERSQRPR GRPPPCCPRUKVKDGKKNKTQG
6667	14718	A	7385	310	327	TKVLL*HVGNIISLFPSPSP*MLNTQWGK KSFNEWWWENWISTCRRJLDPYLLPYI KTN*KSKDNLNCCTTK
6668	14719	A	7386	310	327	TKVLL*HVGNIISLFPSPSP*MLNTQWGK KSFNEWWWENWISTCRRJLDPYLLPYI KTN*KSKDNLNCCTTK
6669	14720	A	7387	3	642	GKGLFDDEDEESDLFMEAPQDRQAGAS VKEESSSSKPGKKIPAGAVSFLGDTDVF GAASVPSLKPKQKPEQPTPRKSPYGPPT GLFFSAPHSKPSKTRKVQSTADIFGDEE GDLFKEKAVASPEATVSQTDENFKARAE KKVTLTSYSCKNLKPSSSETKTKTQKGLFSDEE DSEDFLSSQSASNLKGASLLPGKLPTSVS WFDDDEEEDNLLLGVO
6670	14721	A	7388	1	3096	MVTHQOPAARKPNMTSKPKPMGPKA HGFSGTRKNNNLEIYMIDQTRTGIAKTKLS KNKNSSGGMTLPDFKLYYKAIVIAICG GSMYNSDTEDEETEPSSSGQQIENSIT MNKMKMLLKAKMKMNLSKKHITQVSD EEEDDDGGCDLFADSEKEEKDIEDIEENTR PKRSRPTSFADELAARIKGDAVGRVDEE PTTWSYEDDRRGKNQDAYTEGGLSTKT VNCSSSLPSGEAKLRKTL/KEKKERRPS DDE
6671	14722	A	7389	1	238	
6672	14723	A	739	2	349	PASSIQGGGRRACLEVTWSCSIWNPTAT GGLDRGSVRHSREGGGAEPRVQGPGE MIPAVPKSSWTLJHKMQLPGHVCSTLGR RGDEKGEAGPEAHAYDPSTLGGRQGRIT *GQEFK

6673	14724 A	7390	1	1374	DDIFATEAIKPSQK TREKEKTL ESNLFDD NIDIFADLTIVKPKCEKS KKKVEAKSISFFDD MDDIFSTGIQAKT TCKPSRSQAQ APEPRF EHK VSNIFDPLNAFGQQLRSPSRCCQQA DCCPPDSGLWWVNGALVGLGGARAQH TOVSDEEEEDDGCDLFA DSEKEEKDIEIDI EENTRPKR SRSRPTS FADELAARIKGDAVG RVDEEPTTVSYEDDRGK NQDA YTTEGG LSTIKTVNCSSLP SGEAKLRTL /KEKK ERRTPSDDEEDNLFA PPKLTD EDFSPFGS GGGLFSGGKGLFD DDEEESDLFTEAPOD ROAGASVKECKLGLGSCVSVCRVPLLSF SLGDGTLLRHGCAASVPSI KEPOKPEOP TPRKSPYGPPTGLF DDDGDDDNDFS TPHSKPSKTGKVQSTADIFGDEEGDLFKE KAVASPEATV SQT DENKARA EKKV TLS YSQNVKP
6674	14725 A	7391	1	417	MDSRSRVGN GFTYQDKLSSKLTSVLEA VA GEYALVINGHISL /ARHRYP*LGQYLSS EHFCPGLL YLV LISPD FREDWSQRGLGG AETPRCLLERLALS GFSVLQA HALEADM ELEFLETACACKA VCCR VPLQKAQV
6675	14726 A	7392	3	700	LVKSYLAQFAARAIS ELVSI SELA QPLER GTHFLPLFLCLQQLAKLQDREW LTLELQF QSKVNMQMKMLPGKRKLTCFCFNIISR DFRYLEWIYVGQTV* LSCSDNDKHYHRS HL *REIYNLTTF*SRC*VFICWVVGSLLC YKDLKYLQDHICAEALLSGQDHLV K*TIR* CRWLCLFESDQN KDRMLEILEGK GLSFL FPTQLEKDLF EQIKLDPS PQTYKWKWD NI
6676	14727 A	7393	83	3064	GPRRLLPPPSLPLFFF RSPFPSPSLPYPRP DPPEAAA VAAAEFL GEGIFSLLSPPLFTPS INIIKLRCQA AKVESAJAEGGASRFS SSGGGGSRGAPQHYPKTAGNS EFLGKTP GONAQKWI PARSTRRDDNSAANNSANE KERRHD AIFR XVRGILNKL TPEKF DKL CLE LLNVGVESKLLIKG VILLIVD KALEEPKY SSLV AQLCRLAED A PNF DGP AEG QPG OKQSTTFRRLIPKLQDEFENRTR
6677	14728 A	7394	259	1157	AR WQDVGVRQLTGV *PWGRGSWSRVA SDPRLHAYFSYTAATGKAEP RARTPAPC KVARLRLGSLCLWD *SPPPPP GWRPLRYPT PRAGPAOFGKURSAS ARSTWP /VMQ RLAPKKTRKEQSANDHPIGGPEGRLF TS QLQLKF RALSERIS WLEV SRAVPTPSAA VSTPSTS KPRQKRTNS QRSR SAAKPTPG RRCQGGRCPCTRSP *LR *AGR RHRGE ARRPLR EARRPLR EARRPLR APRSF R KVPSPGQGRSAPQAGVAGTGRRRRSM DAWG RARS LAGSAGG VISL GGR
6678	14729 A	7395	3	432	HIKR VKKN NHMISVG TGEKA FDQJQHSFIIF FKF KKK *EWGHFFN LKSF S'KVRANITL SGD AFS LIL VIRQOCCLLPLF DKV LKVL DSA VQKE EIRDI *VGKEEIKL SLS FEDDM IVYIGNNK */SYRK LPEF INEPS KVAG
6679	14730 A	7396	3	504	AAS TGGG WSE FES VAPGSPDITA APTC PQKTPRSLE/LPHFQ S*TGP CLNP IS PERS EPG QNR GKPR RHYP GPQ NWGP FA/GGC WSK PG STP ALSD DQANT QVDRN/DLQV ASE GEGA *PAEL FP KKM KRL GDL GP GF EGK NGL STED KNL JIP QA WVP ALCG YHV L
6680	14731 A	7397	376	419	VRKSYLCFYIL *NL FQNIKAEGIL PNSFNE ART LIL KQT RRS KENK PYR PIS MDR HA EIL N KISAN *IR *RMK RI HHG QVR FS* G/ MWGW FNIR KQIN V I HHTS LKKN HMI ISINA KEFD KIRKL PKL RNI YK QN I *LTS* VMVR NS

6681	14732	A	7398	205	1463	VYKKVEASRNEKGWVCGTHAGAFFDEGEGPEAAFLGAETAAGAP/GARDHPPFNHGΥΑΓΛΕΓΡΔΛQVGSPHSRGRRQA*VGRAPQSDCPGSGRSGMGEAGMPPR/QGPGLLQQPQEVSFAMVMSIGGOGAVERIPVRPOPVGREGVQGSLQPMKPDGEAASPTAGSRSGRCGPAGRGRALVGRLSRP*PPC*PSPR*SPPPPSSGASSPGHPRPALAHNG*SGWATRGS**DTAPS*HLLVPKQLAGTCLLCRCPKST**AKLEEIVPGFSFHSPRGSYRGLGAQHQLPSVASVHPRCPQAPSAAASHV*RRRPACLSLHQGLGMIVS*APSQVQAQGHITHPPGPDISAERAPAGS*LSQLQGP*DSGLLGSGGCAVPPVAAGHPGSLAWLQPLPPR*SPAPGSGSPAQR
6682	14733	A	7399	2	680	
6683	14734	A	74	743	1233	ECGVFSPPFLRQCLVLSPQAGVRWPWHLGLSLQPQDPGSSRPSHLTLSSWDLTGTCPPLANFRIFFVETGF/TCFPRLVLN*GSSDPPTPQSVGDCRAGSHHTLAVFSQFCFEMGPCSITRAGVUR*HDHSSLQP*NPGLKRSPLSLPSSGDYWSMPPCLA
6684	14735	A	740	15	239	
6685	14736	A	7400	658	1657	PGLSLRNALLTGVDCKVVVPVPPGHHTPQLRLFHFPKTCSGWGEWGDHGVVWAGPAPAYIHHLHRDVQALWTNDHALAW\PA*AMTSERTLWPGHIELSARPGRSWRISCPTGLPQGGDDRTRGHWTTATCCSADGLRLCRYGDGVRGGLPTVAWP*LTGSCSLRYGSQQCCYTAADGTQLLTADSGGSTPDRGHDWGAPPFRTPRVPMSHLYDVLSFYCCCLWAAPDGKDRAGLGCTP*STLTLASAFGDPHFVFDDGTNTFNGRG EYVGMCNQGGRLPEPSGRSAPTTAGTE TRTGTGLTAVAQEGNSDVVEVRLANRTGPER
6686	14737	A	7401	1	422	RPKPKNSFLGGEKANKIIPHPLMIKTLTKLGIEKTYVNIIKVIPNRPMACIINGTKVKAEPVRFERQRCSPSPLLFNIGLKVPARAJEKEKEMKGI*IGKEEKLCLSGNDMTYLKLQKPNSPKTIIRTDTFVKAGYKN
6687	14738	A	7402	247	660	NWSGRRLRMWPSALSPAVSPALALTSPPKLVKGDRGKPPAGRPPGREGPGAWR*GSPPTTLLGPAKAGSGQRGRGRCOP*GPGRWRAASQPLSGCPWPWGTCITELLESPTAEODRPGSGEDS*TDFYPTPTR
6688	14739	A	7403	229	1047	HISVQAKAKADKTVGDGSECPPLLSSQSHPRP**PLPQKPPEREVEEWVKPDGKLLASRAGGLVCISLL*EPRVHSCITGFLGLPVKAELGLLRAQGLPHPASPAPRLGNITG/VGLATE*TGISEHKLGPLGN*GVVMGDAVR*GLCSEGLCPPSRPWGPBMVGVCGLAAKARPH*Q*VCAPGTHILEGSSVWSLSPSQLPPTPGPAVCALAPAPITPARTDGTIQNHLLWPVTRKSALPVQEWWGIDSWGTCQAQEEGPSVGYPGCP*LPGEGRIPPL
6689	14740	A	7404	595	626	CPMLVPPDISLINEQTEKEAGDLVCPSP/AGPVDSFPLGSEPPSSHVGSELKTRAKRQERHKKGGEKDRKAERGT/PGPPLLPELFVH*S*G*CVAQAGALDIISWLKIIUPKSKVSPFCPLKSWAAAATPCSPCHPSSHCSPVGVPGRAKFCACPLECIP*SPPSPLPSLQGPHLCPPFFHASPDGNPGQQVPLCPLRGSPGHLCAMSRCPLRWNPW

6690	14741	A	7405	1	603	EMESRSVT*AGVQ*QDLSSLQ/PLPLHPGFKQFSLPPSPSKLGIITRHTAYLNFFVFLVGDGDFAMRLARLVSNSSSS/CDPSSASQSVIDGVSHCACLTSLCCQTMCFLVA SRYF*FDWGNLFCYNLQIGDVYFIIYLFWMRPSYSITQARMQWCDSLGSLSPPPRFKSFCSLPSSWDYTQHAPPCLANFPVLAEM
6691	14742	A	7406	211	387	PNLG*LNPPPPGLKNFSCLGLP/SKWE*K GOCCLPPGPVNFGFLTKLGVFPCGPGWLEIYN
6692	14743	A	7407	3	326	LSGVMLSPGFPGGYYLFS*CIMDNKATH RCYCVISSL*FLQKH/HHDYLEVRGGSE TSTGIGRLNGPQIPCFLLSTTHETSLYFHS DYSQNKKQFHIEYQGERSNKX
6693	14744	A	7408	1	553	SDPRTETESHKMLTD*RSYSLSTALPF/P LPKSEAITRNRRASRAASLVRITPSKKDV GFLQKPPRLRSCSPSSRCPPGSAARST*AA GTACGCCGTSPRQR*APGALGLRPPQS *GRRSSPRPSLTHPSSSALPPPPTSPRTR YRG*SRAAPLLSSLRPLSGKLFPCTCRPRV SLR*RPSQRE
6694	14745	A	7409	3	377	KLSPSKPILASTLGMPIYHSKVKF/IPGMK GOFNIQKSJIUMTYHINITKNNKNDMVISSS SSSSSSSSSSSSSSSSSSPIEGNYFPITKE/Y EKSIANIIILDS*KLKAFS/LRSGKRQGYLL EKLFLN
6695	14746	A	741	2	311	FQDTGSRASPML*CSGVIMAHIAKSLO TPGLMGSFNLNLSLPSRWWDYRHIPPYLANF LIFFIEMGSCYITQQSHFTPLNGLSLSLLA NKIQGNIGSDLVEDTG
6696	14747	A	7410	1	409	NKVHHNNKRSIHOENKTILNVHVPNNNKD PK*LK/QLTKLTEDTDSSIIIWKFDPNNPLS/ TLDRISTQNIS*DLENLKNTMNQLDQIN YRT/LMPSNTKIEHMGMGHKISFIKFQRJKI IQNTFSENGVTKSNSYIENPKL
6697	14748	A	7411	3	414	KQDQDLYGEV*KVLLKVIKVQLNKWKD MSCSNN*HTNFISN*NCKVFF*LDEJ/CSF V**NKC*RIAKEVLSSSQ*CLGGHL/TSPH IRRSYNTTFSQSIIWCYRKTQID*WTRTQ NPEKDLR*GDLIYDLRCCSSRA
6698	14749	A	7412	3	333	LIKEGOIQKLSAKNGTPQDRHLFLFNSMI LYCVPKLRLMGQKFSVREKMDISGLQV QDIVKPNTAHTIIFTGRKRSRVEQTRSSR ATIEKHKQNSETFKAFGGRLARD
6699	14750	A	7413	3	391	EEDIVNPANDLIKEQOIQKRSAKNGTPQD RHLFLFNSMILYCGPKLRLMGQKFSVRE NMDISRLQSQDIVKPNVTIHTITGTRKRS LELQIRTEEEKKDWIQUIPATGKHNQNM GETFKAFGGPLNOGW

6700	14751	A	7414	3	1811	RYIDVGLRRYTAPGLG*LWRHPAQSAVP TAHC GDPVSLAAGDGS PDIGPTGELSG SLKIPNRDSDGIDS PSSS VAGENPFCCEEGLE ACGPSTVLGAHAEMALDSQVKVTPQEE ADSDVGEEPDSENTPQKADKDAGLAQH SGPKLHLIAQQFLAPAEETYVTKRLHLJL DQVFCTRGRMRGIPPERSSWGHNSLNI FLPQPASHQFLLPELKTRITEEWDTNP RLGDILQKLAPPKMYGEYVKNFDRAV GLVSTWTQRSPFLKFDVHSIQQKEVCGN LTLQHMLPVRVPRYELLKKDYLKRL PQDADPKRDAERSLEI STAANHSNAIR KVEKMHKLLEVYEQQLGGEEDIVNP AHE IKEGOIQKLSAKNGTPQDRHFLFNSMI LYCVPKJRLMGKFSVREKMDISGLQV QDIVKPNATAHTFUTGRKRSLELQTRTEEE KKEWIQIQAIEHKQNSETFKAFGAF SQDEDPSLSPDMPTSTSPVEPVVTEGSS GAAGLEPRKLSSKTRRDKEQCSKSCSGE TFSNITKRRHHCKLCGAVSPGRGGQQQE ATLSSALTEQLSPHQHHTSHAHQPCTEG LPDGSWI
6701	14752	A	7415	189	392	KQKWEKKQLKKSPGPAAAHTCNPSTL GG*GGRITRSGNRDYPGQHSETPSLT*N GKNLGRGMVGB
6702	14753	A	7416	2	325	SHAGCLIRFWRKSMITPTHSLPLIPTFLGT CEASFLEPRASPVPPQCSMALRRYRLDM GQSFWGGPLSSHPPDPSPRGFV/PVGHV PQEGPGKPPAPDSS*H*DPTIG
6703	14754	A	7417	9	1430	NDNASFGEVY YHPYPPVGQSQCHDES GA GFPGPSCPCTGWTPALPKFGREGGGWL LGQASPVTAPCPACIF*VPCCTIGEOGQ WLGA PGK DASH/GA*KM*GVKGRLCVG APEGAG/PSQGI*SFTTEP**AHQPNGLYE DEHKNSR WGHPHPPV/QWNWDRTS*CNI PSRP*VPHWVRCAGLEPAGPGPHRT RT PSQVGVILFLQKR KQPACEPYALFTPLSP HSUPASARPGSPSD*MCRAPEDSCPEMA LLPGMGP GPGSGERCSRAPS PGQAVTGV PGPTWGSGESRCRFRAPSPGASGEAAKC SRSPFTGGSGESRCRSGA PSPGAQVRAGV PRPITWGSGESRCRSPSPGAQVRTGV GPTTWGSGESRCRSPSPGAQVRTGV PERKGP PQR S QEK GH RGG S QA APK PSS R/PQESPSP LTPS GGGPGS/GRNGA*GVSEG *SAGSGGEEEDVFGC*GPPALGP EG
6704	14755	A	7418	1	389	HLTCFHIIHYDDRVRLGYKGKECPGIPR VYRIRHIGEGRHLYVLQFKDHPGIGHOPLE POVYKVGNMHSNKAFGR*LMLQLSEF CEEIRKNQRIVQLQDTRIHLPSMNFD C YQGGIVAKGP NKP WLC
6705	14756	A	7419	31	392	KHNRASPPPS*KKSSSPVTKGR/YTKTP HTDVPQG*QPPYKQRG GTSSSSPFS FIFS Y SIVLSSSRP PHPGPTSPRLHPS PRSHLS E V PPLTQVPP LQGP VP HDP TSPW LYSPSS YLY
6706	14757	C	742	398	574	
6707	14758	A	7420	2	704	TDSKCPFLVHQAHAAAM*KERHFLTANG SCKFHQDINRLLSSVFL*ELVVRHCRG HQKRVDEIAKGNRI.LDQRAKSAVRRPQ GPKTLEAPL IWEGYIREIKPQYS P/DRDR MGHLSRYTFQPSWLQSEDCKVRL PASS QWKILKIH*AFHLCGHKTSVHPKIVLRR KSTKNGQIQC*YS*NPLKNNPFNR*LLPH HNQRMGSYSGEDWQIDFTHMPKINGIQC LLEWVHIFI

6708	14759	A	7421	2	705FSRDEVS P S WPGW S Q T P D / L R D T P / C L G L P K C * D Y R C G P P H L A E S K F Y P P I * K L Y H S M L C L * A D S K S * K P M S L F L L F L F L F L T Q N F A L V A Q A G V Q W H G F G S L Q L P P G F K R F S C L S L S S W D Y R C L P P R L A * F T F V L V Q M G F T M V R L V S N S * A Q / C D P H A L A S Q S V G T I G I S H C S W P N V I Y I T T M * I F T S I P P S P L L I R H M F L F L F F E T E S R S V A * A G V Q W H N L G S L Q P P R L
6709	14760	A	7422	33	775V M G P A P A G E Q L R G A T G E P E V M E P A L E G T G K E G K K A S S R K R T L A E P P A K G L L Q P V K L S R A E L Y K E P T N E I L N R L R E T E I L F H N S L L R L O V E E I L L K E V R L S E K K D R I D A F L R E V N Q R V V R V P S V P E T E L J T D Q A W L P A G V R V P L P K C P C M P * R A C F R A L P K P R I T V C E A S Y L S G Q P S I R P D I N V D V A L T M P R E I L Q D K D G L N O R Y F R K R A L Y A H L A H H L A Q D P L F G S V C F S Y T N G C H L K P S I L L R P Q
6710	14761	A	7423	74	576L C W Q P I R R W S P T L R A N G H Q K * S G V A I L I S D K T N F K A T A V E R D K E G H Y I M L K G L V Q Q E N I T I L N I Y A P N T G T L T F I K R L L I D L R N E I D S N T I I V G D F S T P L T A L D R P R Q K V N K E T M D L N Y T L Q F M D L I D I Y R T F H P T T A E Y T F Y S T A H G T F S K I D H R I G H K I S L N T F K
6711	14762	B	7424	158	346X L S O G E V V P Q I P V K S G G P H G A G V L G L H L E G G F I S R E K R G A H P E A H L R S F E A D A Q D L L A T Q Q X *
6712	14763	A	7425	1	1768F F V T F V M Y F T T I F K K Q T K T N L K S A S P T P Q N H P / G S S L A Q / P L S H P D P G P L S H N P G L A L W D Q P S L P A P P R P S S Q G G G A L C E W G W Q P G P K A G P G L T S S / G D W G V P S E V G D D Q H A S S G F * P * G W G T F K H * Q P A S L G T G R C S T S N T S A E N L T C L S L P G S P G K T A P L P G P A Q A G A G Q P L P K G C A A V K A E V G I P A P / P P P P G G Q D P H P S P A F L G S P G A C G L R S T P C A L P Q A L P Q A R P C P G R / W F F P W L F P P Q T G A P D H P I S L D P G D I U F N W A L Q Q E G K R T S A R A / R G A Y L L C P R T A P / G K Q Q G R E P P T P E L K W R E S Q D N H P * R G A A P P D V / P H C G C P Q S Q E G S R S P P A S K L F Q G E S R P V F A T W V C S R A K G T Q K M A G * H * W G E Q Q T L V P R H T A L Q H Q A G S P Q P A S T G P G D V * R D R V I E K R K Q N A G H P W H S G L G S P G S W K N R G P G S L P P G Q S G A P G N C A L A Q E P Q C G F / T R C T P O T O E Q K A N P * L S T L P V T G P L P A G S S P P A H G G F T P W A P A T L P A P P S H * * H P P G V C R S P V P / P S C R Q A L S P T G A Q G P G * T T A Q P S H P R P * M P S P G Q P G W C H M * A Q / K P G A K A S P A G C T S / Q P P P P G R R
6713	14764	A	7426	36	620Q H K L L N I K N H T G E K S * K C K E C D K A F K W L S H * I I G K I V H T E E N F Y K C E Q C G K I F N E C S H L I A Q E S I Y T * K K M Y K Y K D H E K A I N I Y S H L / N H W R V H T * * K E Y K C N Y C Q K I I Q J I N I N L * S E E G I Y F E D E H Y K C E E G C S T F I C I T D F I V H I L Y * K K T L M L C C S N F V Q E Q G I Y I E E K L C K F N K F * K T L F Q K V Q L R R H Q S S Y
6714	14765	A	7427	3	276P K K S T E K I L L E V I S N N S K F T R Q K A N V Q K S I T F L Q Y N S N E Q V K F K M * N T L P / Y K M K Y L G I S V T K H M Q D P Y E E K Y K T L M K D N K E E Q N K * R D J P C L
6715	14766	A	7428	125	456L A D W A H R A P A S P Q R N G / A D Y A V Y I N T A Q E F D G S D G A R P D E A V S W G K I R V D A Q P V K / V K R W L G G A * G L W D D E C G S H G L P R F P P T Q V Y A A S L V F P L L E A E I F A Q K M D A F T H E K

6716	14767	A	7429	1	571	LSGKEVRENGIHR\GNLL\VPVN\ENYCKF EDWLMLPILDQMVMQEKNKRGFFGLKWKW TPSKMIARLGKEINNEPNESVYYWAQKNNH PVFSPALTDSLGDMMFFHSXKNPGLVL DIVEAERG/ADYAVYINTAQEFDGSDSIG ARPDEA/VPPWGKIRVDAOPVKVYANAS ALFPILLVAETFAQKMDAFMHHEKNED
6717	14768	A	743	3	862	RNERHYADKGTVKTRRAIMTVQ*SGET NVDRAYNLKYQTLDWTDSVTC*ENKEI AAGQRNESHNSNDWTKYQVWEWLQHLL DTNQLDANCIPFOEDFINGEIILCSMSLQE FTRAAGTAGQQLYSNLQHLLWNNGGHG ISKSCKETRILFPPFTYLGPQGHTLATCRAV SKRQLPKLQCAVHSFVTPGYPLDEIGYR ARDLREPQGVAVALLPLSSDGNPRRRPG LPKLKAQRQVRVRFPSNKRGGGPSSPFHS AFLNWQHKNVWMVKELSSYLGPLQY YPGSGFGAI
6718	14769	A	7430	1	311	RRVSSSESWRSLERSRORSLERQGRMRPR CQRFRNESCVAPRHCKGPGGKGLQALF* VPVAAQLGEPGAQLGDPGAHGEEATVPEV QGE/PAALLPGTAKPGEGSPGFIPPRHC RGTGEEGSPGFTQGRETSAQQRTGCLL SCRGCLCLSVIDS
6719	14770	A	7431	250	503	DDEEKSKIEEVWVGSDDEEDNGDKKK KINKIKEK/YIDWEELNKJKNWIRNSDDI TQEYREFYKSFSTD*EDHLAVKHFSVE
6720	14771	A	7432	3	540	KRGRSFKMAELYQLPDESSAKALVSLK EGSLNSTNTNEKYSSLQKTPVWKGRNT SAVEMPFRNSKRSRSLFSDEDDRQINTRSP KRNRVAMVPQKFTATMSTPDKKASQK IGFRRLNLLKLSS*RH*WGIL/AKWFSNN DKPLFEGDNDFCVCLKESFPNLKTRKL REWKGKIRRLMG
6721	14772	A	7433	3	322	FFLRWLT/DTVTRGGIOWCNLGLSPQP/P PRFKRFSCLSLSSSWDYRPPPCCANFLY F**RRGFTMLARLVLN*PDRPPASASQS AGITGVGHRAWPMPIFENRFDL
6722	14773	A	7434	22	475	PRMISCRTRPPTPRP*SNSAOPFRHLLVHP VKAKEYFLSAVMTTHIHLASASHFPFAA* SATFFAAPOPMWTSSDLPQPSTCLPLGCTS PLPSRPLLWVSCS/SFPDPTQMPPLPSTFP GLFLP*PHSSALSPLL*LPHGFALSPSSV PFPT
6723	14774	A	7435	14	362	LFYQTFSNVN*KT/RHKMNK*TEDFNNNTI EQLDLTVTFSILHSTVEYAIIILTHATIFOI DHLLS*KTHLSK/CSADGITQIIPNYDTIK QEVKNTNMSKSNK*KLNKKFSNTLFLKRL
6724	14775	A	7436	1	440	SPPFPKNNFYFSLRLPILFLRGVGPKLPPP KRVFSKNNPEVFKSPPLKKNNFSPPP VNL.GPKDILLKQ/PPPSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSPDRERPFIT**PTRL
6725	14776	A	7437	8	487	DEVSLVAQAGVQWHNLGLQPLLPGFK RSSYLSLSSWDYRCPPCLANF/FIFSRD GGFTMLIARLVLN*PQ/CDLPASASQSV VITGVSHCARURAPSF*MSASGVTICVGW ELFGMSHPVAEANDHLSGALVPPFALS/IS HFMPGLLPTIMFCPLPGRCE
6726	14777	A	7438	1	445	IDCWHKCQDNNSMGMKDNLFN*SYWDYWI SI*KKRTTSNLSPHKIES/RWINLNVNSK ALFRRKQRKTLHDCGLGNSFVEETQKAL TN/WDIIKLQ/SFCSSKYTTKLKR*ATD WGKJPIFLAKNNNDKICEHTHNKRRYM FGQMHVWWA

6727	14778 A	7439	131	763	PGISADSRGQQKLS*WGPSHQPPPGPLKG SAPGGILCGLVGPAAKHALRPSFHSGA PSAGNLGCFAAWASSLNSNQGSPSPSKG HIPKDRGEPRGTVPSLRKATATGRKAER LSDEGRSSVHGA*AGIPGHEGNAKENRDR HPWQLPGIASAAVVIASGRALPPGGQA GPQKLAAPFSSLSVPGGARWG*AEGAPS KQRGVTVGEPGRQC
6728	14779 A	744	15	404	RNFVDDLSVSPRCGILWFFTQGQASCW RPLATLPSRQKPGSSPGKAGCWPA/WDL GLVPHGVGSVIAASSTPQGQAVCSPSV AAPSTLLLLRTHLLGAASLQGGGHQILL HHIIGMDLYVAASPSHRFW
6729	14780 A	7440	47	265	
6730	14781 A	7441	1	330	HHHLAPFSSLPNNIVL/EEVLRAPINKEAK *KAP*LERKEVLLPLFAEIQEMIWYIDN SKESTKEELLELINKFIKATRYRFHIQ*L.VF LYTCNNLK*KLKYLSINLTKV
6731	14782 A	7442	3	423	NNALLNNPVWKGAIPKEVRPYLD/TREN KVTA*QNLNWDAKK*CSGKLLALKCEC QINNLSPFLKPIKE*EQIKSPVNICKNVIFK KLKIKKGLKV*KK*RKISETWSFLEKVI KIY*SQGRHARKKNEKSQITRDSRSTRG
6732	14783 A	7443	1	689	YIVIVSYINIQFVLFL*EHLLINKFLSFVYQ LMLKH*KKRITNTLFTLIRTM*AFLFYY QICISVIAAVLFCI*IPPF*HLCLLUVLF MYPFNILRFPILLRSDITSFHYMPFLGRFL SC*SKEOHLHNCPGIYFINLLVWKHFFL DVIFTLVYYFVG/FALLIVDFLMSVC*TF YLSLFISR/(ACLLFYFPHI*LIFIWAYISRLIEI SFHITF*GYIIFASEIIVEIF
6733	14784 A	7444	3	545	TMLLFTLQNRCWTSSHCPMPAPALCPGK LTVGTSMSGPRSPPWPPSSANA*PVDKP SSEQG*GQCTAAAPPCCRVAVSLSKVRAP GDGLSCGSSCPPG/RQGRGVPCPAAGER REGREDLKPRE*IGSCICNKLGIISPAK*D KNSQDKSKKNPIDIERTSLAVGTVPQSTR PRVPLGYHYCY
6734	14785 A	7445	243	768	NLPNK*QDEGRGGAEPPPWPG/SLFPR DVEAPSPRRLGAPAWPPAAGRWPREG AWLG*VLCFRKRSPLPFLVGLVAGA*ASVG GGCVGRCPLSGAWPPPVGQDKDPSVPCSE RPAASFP/PTCVPNAEGGERAPRDSR GEGSLFCRGEERGQGLKTTRNRFVY QEQRADFIS
6735	14786 A	7446	596	1335	LEQTFSVATAMDSRFPFDQDLDLEPERA CHDAAGTLEVDFFLFLNFGTVDALGRKE TTTEQALPPALLGIRRPEELRSVPQTED APSKVNVLCLLIAECSPGIPSVDYLPCAIP SAYR/R/WYLDFCPR*FLPPYY*RRHPTFW TTVQEAFSHHDVAFTSTPVLFYDQAQ PFIVKSESSSQIAKAALSQQRPSLTYERAL HFPS*SLQRHTIDLDQGIF*ILMLSEERQH LFESSIGPHITISKD
6736	14787 A	7447	199	450	ERSFSKMKP*NPGGGEP*PTLGPSSPP PHLLGPKFLEKIFGLPGLPGKIP/FP/P/GFA FGPNLGSSEIPEGINRSLPLGER
6737	14788 A	7448	154	695	GLLSNLLISIFFIPPKKSAKYQHKMHISQS FIIFYCFNTHFNQFLNKF/FNELQ/K*HEL KLE*SKIILYQNQNPKVTVREIMQLRAQQL KJIDSVKHKRTWQGLKQGV/YWGFYV NVIKGSFFYFWDKYFIFIDWAKNTLNR MGPERPTVFLPNFIYSOSTKLALNWVINI MGQFIPSYSVSA
6738	14789 A	7449	203	443	FFVKGPKNTHW/RKDSIVNKWC*KN*IST CRRMRLLDTCLSLYTKIK*KLRIPIESGTE PR
6739	14790 A	745	1001	1459	

6740	14791	A	7450	8	312	QTLALSPGLGVQRWDLGSPQALPPGFMP FLP*ASQISRDYRRPAN/LMPGPNNFIFQ AETGFSTVLAPGWCALDPLDVHSASASP SAGITGVSHRCPART*
6741	14792	A	7451	1	2554	MKVWLLGLLLVHEALEDTVGQHLPKN KRKEPEGENRIKPTNKVKPKPKMKDR DSANSAPKTOSIMMQLVLDKGWFQPKPAA TLSLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGILLREQAGPMGSQP KVNPTTMARVPQVEPPVGETWESSTLLA DGAVIDKRSFSALCSSFISTWKLATLNDP VHLLSLVCTWLTAGRSRTARHVA ASRCGHLTFAWNQYISLERLSVYMCRF VTWVNCMRSRGFGVDYIIQVQLKIQLVP PDSVHPRSSHKHLLSLRSEIAKTTSYCPKH SSSPLPRNQMRSGVSITLEQRSESTSSP PPVTLALLFVNLTWSWLKGPILPVVAVS VQLSRAGACFDVTREVLMSFCYMVV GGDFLLGSSLVCQVWFWFVSRGYFTLLI FSESREYLKEEEELFLCKPGPYAGQRVK KNIDPSSVKQNERYGQQLTVNSTSADT GEFSCWVQLCSGYICRKDEAKTGSTYIIF TESGGRISVLVNLVLTQELLAHFPDD VSRNSAPNLKHHILLTQTRRRQVGKKAKK NYLFQEHCGENTRKXHVIRIGVSLALKISL CKYCNIJPSONDPEKQRICTMPKKKSHQ HQKQYPOKPSPEFLACPDKRIEKGELFVP SPSYFDVVYLNPDRQAVVPC/PGDRAVG QSHAPQGIPSSQGDPQSWNHGCL*HEAGL CVSATSFRAPGCCLGQLGGGRGQJSDLRQ VPAALRGGPNNSSKPAFCSSCHMQAOPW* V/LAALSRRPQQPPLPSPLLPSLLGHQVTG IPSGPSTTIIASSNKVSKSGDDISVLCVTL GEPDVEVEFTWIPPGQKPPSRVTGLWAG TWCLYRVL
6742	14793	B	7452	1	2586	KRKEPEGENRIKPTNKVKPKPKMKDR DSANSAPKTOSIMMQLVLDKGWFQPKPAA TLSLAGQTVELRCKGSRIGWSYPAYLD TFKDSRLSLYNSRGILLREQAGPMGSQP KVNPTTMARVPQVEPPVGETWESSTLLA DGAVIDKRSFSALCSSFISTWKLATLNDP VHLLSLVCTWLTAGRSRTARHVA ASRCGHLTFAWNQYISLERLSVYMCRF VTWVNCMRSRGFGVDYIIQVQLKIQLVP PDSVHPRSSHKHLLSLRSEIAKTTSYCPKH SSSPLPRNQMRSGVSITLEQRSESTSSP PPVTLALLFVNLTWSWLKGESREYLKEEEE LFLCKPGPYAGQRVKNDPSSVKQNE RYGOLTLVNNTSADTGEFSCWVQLCSG YICKDEAKTGSTYIFTESGGRISVLVN LVLTQELLAHFPDDVSRNFAPNLKHH LTVTQRRQVGKKAKKNNLYFQEHCGENT RKHIVIRGVSLALKISLCKYCNIPSQNDPE KQRIQCTMPKKKSHQHQKQYKQPKSIEF LACPDKRIEKGELFVPSPSYFDVVYLNPD RQAVVPCRVTVLSAKVTLHREFPAKEIP ANGTDIVYDMKRGFVYLPQIPIEIQGVV YCRAEAGGRSRSQSVYQLLYVAGWMFS FLVMTLLENPSSPFQPNPSIVHSGASAVL DQQSQSQFIQACFLFLSHAGSMVSAAL SRRPQFPPPLPSPLLPSLLGHQVRGIPSP STILASSNIVKSGDIDSVLCLTVLGEPDV EVFTWIPPGQKDERPVTIQDTWRLJHRG LGHITRISQSVITVEDFETIDAGYYICTAQ NLQQTTVATIVFVS*
6743	14794	B	7453	520	600	MIDCVFGAELAESLSFILGILGFTFLL*

6744	14795	A	7454	78	624	TNKSQGSQGLCVAGIPRACPOQSSPVQQKRN NVPPLSILSAPFGSGS*GL*PCGGVLGATG GAELMGLLRSWCPGPGVCTSLGGQQVGS LSLESEPPASSLNNSRGILLREGQAASVGG QPKVTSPTMARVL*VEPPVCTEW/GFHP WOMGMLPRLGV/WAGPPQTTPCGVTQLA ANGKOPVRKPGSYD
6745	14796	A	7455	3	369	ISQPKCNLGPPIKEVYKRPSSSSSKKEPF FFPGESKGGLVSPRKRGSSSRVKPFSAPT PKKGPRRSSSRGKGSSSRNFKKKGGPF G*PRFFFPGPKPPRPPKAG/H/VRKG PPGPBK
6746	14797	A	7456	2	648	OTLPFKGRGPQEDGLIRRPSKRPAWPWL CQGPAACPLPASLQLVVPGHQMDPQLVLP PFLSPARPLLEL*EGRQKGRWRGPQPSAQ GQEQLSSSSASPFTAERARPRACTYGG* CLALP*VTGGVGPMASITLPWTGMQGD SRGNR*EGPGVR*/DWGCSPRER*EGGTG VALEERGLLQRQREKTSGVGVSEPGVF QRPALPGPWCPRILHKRLA
6747	14798	C	7457	89	376	
6748	14799	A	7458	3	864	MNFSPFLPSNFGDSQNISETPSEQQQPLA QNSSGKTEYMAFPKFESSSSSIAKEPRN KKLPEEEVESSRTPWLYEQEGEVEKPFIK TGFVSVEKSTSSNRKNQLDTNGRRQF DEESLESFSMSMPDVDPITVTKTFKTRKA SAQASLASIKDKTPKSKSKKRNRYSSSWK SRVKNRYESASMSSCTCEPCKCSRNRHSA QTEEPVQAKVFSRKRNHEQLEKUICCRNST EISSETGDSFMFEALRDTIYESEVATLISQ NESRPHFLJELFHQLQLNTDYLQRQAL
6749	14800	A	7459	2	743	KASAQASLASIKDKTPKSKSKKRNSTQLK SRVKNRYESASMSSCTCEPCKCSRNRHSA QTEEPVQAKVFSRKRNHEQLEKUICCRNST EISSAHARRILQOSNRNACNEAPEGTGSDF SMFEALRDTIYESEVATLISQESRPHFLM ELV/HELOL/LNTDYLQRALYALQDIVS RHISESHKGENVKSVNSGTWIASNSELT PESLATTDVFIQEKK-YASQKHLHINV HSIFSHDSLKLKHQEING
6750	14801	A	746	3	357	
6751	14802	A	7460	1	336	IYEPITEKFGPPIKEIILKGAPSSSSKQKF PFFPGPGKQKGGPGSQLTPPS/RSSPPP OPPOKEGFGQRSSSSG*CIFFKKKGFFG WAGGVQNPNPKGPGPLPKPW
6752	14803	A	7461	1	3010	YRIPGGGTWQSARPRVGSRRAVDGEA RRLGLSPSSRRWRPGPQPHCPGPRAFA LSCAAAPARRPRGHAESRRDGGLGSAE EEESWYDQDQDLEQDLHLAAELGTLLE RNKELEGSLSQMYSTNEEQVQEIEYLT QLDTLRLHVNEQHAKVYEQDLTARDLE LTNHLRLVLESKAAQQKIHGLTETIERLQA QVEELQAQVEQLRGLEQLRVLREKERR RTHTFPCLKELCTSPrCKDAFRLHSSSL LPA
6753	14804	A	7462	2	190	SSNKKKPPNNHPEPDPSKTFVQTF/INT P/PIPLKLFQKTELQELPNSFCEVSITNSS TRR
6754	14805	A	7464	359	1095	PKGENGLWCGASLLNARMRAGNKSP LPLRPPGATKSLPQGALQFQPLAEPDSA AGLGTGGTIPRLTEVGGGALS*+RSGSGF ENOKGPPDPASGYLDMHTPPFSQDPI PASHMPIPSWSLFSVEDRRSRQKTTPGR WGSRCGILPHTCSILVGGVTRGEGVEMLP MGTGKCAPFAPHLASAANSVLTAGDP APAGAQLGSAQAQEAALGQGGGRRSQAP PRRALQRPHAWVETTSQWRSAG

6755	14806	A	7465	16	405	VGAIORAPPAPPSCARLHTPDIRATLHQ TPGGLTPOQEKKDHEHGHGDRAHSAGAVS VVVLDPGTCSSRRRWFSPLYELLRSS GECRG*SPASPLSHSHTAHVTPKAIFIHL LCARCKEDSGITQQGAF
6756	14807	A	7466	16	255	ARPSCPSWSFSCCGVGSPGA/LVTEAAIF YETQPSLWAESLSLLPLAKLMTYFKNS TYLJRLFMYRCKPVKSKKKRN
6757	14808	B	7467	1	1026	MRARRLPWALTLVAELGWDTQGGDQT SPGGNDRMSMMEAECSTTVPLSCSPTG CQQTREEVSARATTPPSLGSASLTLTPD THCTGVSATIMSMVLVFLLWPFSSHST LAHKKRIHTGEKPYKCEECGKAFRSST LAHKKRIHTGEKPYKCEECGKAFRQSSST LTKHKIIHTEEKPYKCECDKAFKRLSTL AKHKIIHAGEKLYKCEECGKAFNRSSNL TIHKFIHTGEKPYKCEECGKAFNWSSLT KHKRIHTREKPKCKEKGKAFIWSSTLTK HKTHTGEKPYKCEECGKAFRSSTLTK HKTHTGEKPYKCEECGKLLSTPQPLNNI K*
6758	14809	A	7468	1255	2710	ARPSCPSWSFSCCGVGSPGA/LVTEAAIF YETQPSLWESESLLPLPLANVLTLCQAR LETPDFQLLNGNVQAQEPVHLDSPAIIKHQ FLLTGDTQGPLPLPLGLVHRMDPAEQAP WS*QGPKALFNSTPPTESLPAWPWLSMAP VSWITPGPETTSURCRGVLRGVTFJL.RRE GDHEFLEVPEAQEDVEATFPVHOPGNYS CSYRTDGEGALSEPSATVTEIELAAPPP VIAUTMESPPRSCSTLGNKVIITCVAPLSG SGISLRRGGERAAGNPGGSTSPDRIFHH LNAVALGDGGHYTCYRLLHDNQNNGWS GDSAPVELLSDETLPAPEFSEPEPESGRAL RLRCLAPLEGARFALVREDRGGRVRHVF QSPAGTEALFELHNISVADSANYSCVYV DLKPPFGGSAPSERLHELHVDGELAGHQR GRARVQCPSPGVPPFLPWASDGGALGL GSAPIAYPGGEQAIGGRGSGDAWNFLGF PTDASP
6759	14810	A	7469	3	1312	GEAQRGGSTGLGAQGQCATSQGLAARS SWGHRSRSGHQLGSRGPRTRSSAQ*GAAA ADLQAGAGRHSDDHNPPT*AA*G*NLPAE E*GGPRAGAPAHASCPTDPSAGEPPTGTA GAQARRWHQPGLCSPSGV*QASPQSSPR AQQTSPGAQAEHHEPRE*AAQAGERPA GGSVEGAGASGPPAAGTGDACGNPGPA AAGSPRGQGQSRAATGHTGCAVQLPR PAPSPRG*KCPAAAAAQETEG*VRPTAA TLRLAGSGARRWCPRSASHHGPPDIPGG DSGGHPGSAPOP*AAAGPGCPQLPQEAQ GSEPOQA*RATGCLQGPGRCILGPDPPEAP GLLPQHPGRAGTGAGTAAGPGHD*RA TF*ATGVRGPAP/EAGTSTKS*G*GSWQV QCTPGKWGLCLOPSPSIQGPAATRSPSK GRAEOSSSSAESTEPSHPAPRK7
6760	14811	A	747	461	791	ESLQTGLJFTKSDEMDLPHIGPCR*DGV AVSGAPSSNSPPTSVAGSTRLAKERGDH HLRKQPRWEVHGAVVRAVIRPFIFHLSR KEAACCLFPPPTLPSRQQTPLSLK

6761	14812A	7470	1	1987	MWEPFGCSQGDT/GVPGCRDR*GG*GAA GCAGGRPSPGDRGQWPWACGGGGRGIIPS TSTGPAGHIGEEAASEQRLLSGGPRLRRP GPH*AHRHVPGAGRGCL*LGRREPQH VFSRSAPAAPGRPLALPFLDEDKG+AEP EAAPRRPAAGHSHPGHVSHCGEAPGGL DHLHLPQ/SPAGMGSEHDGRSGOC*PSR HTSP/PTL/QSPSPDTHPGSSLPAPRAL SCWARVFAISLGDDQPAFLGGHTGPPDAS GEPOHKH*PS/GPLSSSSTPGAPIQGRQRN ESLPGTC*GMEWPTAALG*GPRPVAT PGTPGGAPTS\GFPVGQCAQKPEAGL/VVA NGTMCCPAKHTWRSGPKIPTLISILPLL LHGGVSLGSPPQQSALRPPAPASLPGCV TDKSPLSAQNTKVSPDLPE**HLPECS RGWGSPLLVLHPLJ.GHILVSAHIPLPGYK ACPRPLNLLGRFGA\QGRPGSLRSRSGG */PGPAPSALGVSGSPSSHPPN/GLYAEAH RMGFLPDSSKSNKGCKLTHIPQTSK PPAIPSP*SKTSGRKRNRLPGLHQSQSF RMPGMP*APSVYLLPLSHPLPLRTRAG KPSLQPQRSPLSVSSHTRAQQLSLSVP*G QCFCVFGHTSTRQGLPPHLSILPAELPQSSF ANRGIKASLRK
6762	14813A	7471	2	353	DRKEERLRSRPSGAATRSSGGKVGVAE WDPLPCLDPELWDQFDNLKNHNSLEKFII SAKERTEJELSYTKQLRNLKTCQPKRN WKEKEYIT*NSPSLPVNKMSDHARQH*V ITLGSIKLSSLRS
6763	14814A	7472	2	390	PLDQORVKIEDKVNKSRSS*KN/LGLEDL GTYSIV/TDADEDISASHTLTSEEELERKLK KLSHEIKNPVIKLISGWNIDLERGEVRL WLEVQKLSPAELHLIFPNNEIFSSPNRK INFDRKEGLVEVIIH
6764	14815A	7473	3	223	DAWVTSTNADKEFEKIQHPLMIKLSKK* VYNMSSITYPLFKIJKGYDKSLVNIIILNVE KLKAFFLRLRTGTRER
6765	14816A	7474	3	1033	CPLPFSL*YSTCGEKQPOPMWSRASAASP GOSAPSSSSAVCWAKASCQVWVWTSPSY SYTNRFPRRTPHSPGVWKACISRAG*PA RKNSLICGLAGKTGALKDTSGKAPVFPL CHRHSDPGGPFHCABEGTGNSPLGRRL KGLP*AAAVCP CPPGAPHLPORRPRAGPT *FPPAQSSPPQSVWSRSRCTRMPGPTPG RWGPAAGSWPATSLASGCPSPWECVGAT NP*APRLSTALGSCCPSPPEGKRRPNTPA TRPPCVPAG*APPGHSRGNNGGLEKSSF  PASCGR*QSGAGPSRLDFPSSPSRLHSPV POPFRFTSHPVQVASSVSEGEKPLRSYD PRR
6766	14817A	7475	63	389	KNQEQESEETLPNLJFYKASITLIPKLDTSS SSSSSFSSSSSSSSSS*KPITHRNPSSSSSS SSHQIQQYIGKIIHHHDQVGCIPEHLIKFNI AA**EPSKNGDRRNTP
6767	14818A	7476	3	335	HASGKDRHTDQRNRIRKNPETDT*YISTP* OKC/RL*WRKDSLNVKWC*SNWASPM KKIKLDLSSSSSSSSSSSSSSSS*NVKLL GNNVGGNLQYRGLRVHTVDVKAQHI
6768	14819A	7477	50	378	LEAWAGLSQVQTPSKFLENPSQSQSYRLTV PLRKHVRPKKQOHEIRRRA*VGNNLSDFT G*HPGCIRGL.RPGVHLSRIMLDGLGLMV KSMERDQRLLVERAQRQLDQELQALEK
6769	14820A	7478	62	389	KRDPRKTFITPPPSVGERQIRRGPTCKWG FLGLVGRGGPPEGIKSLLLWNPGPPLG PNIKKGPRLLTPSSSSNFQREKFHPGGG APP*NPT/ILGRPGGGPNKLGWGV

6770	14821A	7479	18	373	RGEPPSPAPIGIFKSKRGPFGPKTFPGGF LPKGKKPGPFFPGFLETKEGTPPPNPF KK/ARVFLVFVKPKAGSSSSSSPNYKIYL NNNTDTKFFNNMLANRI*QCIEVMQYDR TRG
6771	14822A	748	40	317	LRVTAQWASHTLPDPVGNGPSGWKEK DRDSEWGWRDLKSKTWWVEAEAGGLS GDTFWLPOGSSQRGLPLVNQGAGVQ ETKGAGPL*SPAPLPPGSPEGAQASCSP VAGIMYPLTGPLPPPQPRSWISGPSTPI LSCPSPSRSQGFPPOGLEVCVTPIELLP EVRLKIRECCEPSFI
6772	14823A	7480	2	1288	FFFFCSYAVNAAGNEGNDTALSFPERS QSLRCGFSQNLTCLLPAPTRSNFGSCRP RQPQGSLPAJALAAGDSPGEAGPPGEQS RQIOTHFTP*IPRPRVRVQGSQSSPSITSHIQ QFNGEQQTIS*QNLGLRTSFECNPRLIS RL*VVRFRSLFAFPFLFAFHSPSPFFF*GN V*ARLQGOKMESLGAEGHLHRRRPRQGW RKTOKAPSAVYGNKNGPAP/WEPWPKV FRTGAAKP*GPNPISPKP*RHSLDLAKG RGPDPCARTGTQLQSLCAFLLWPSRELITPG CHVLJLGLGSRLRGALFGG*GTAKRLSHK GRQSGP*N*PGRITAPLIPSAASGRVVR GLQRNEPLAPQNPTLRLSPPLLGGIKVKE TVGI**GVGMR/DLGNS*NEVSAFIGN*ESR GGSNRMVFLPLPNARESPPSPRFETVN
6773	14824A	7481	3	352	QFSE*KKRKJFPTQA*DQKQLNVQKYKI LLVTRKEGPNGKRGPPCS*IRKLNIKVT IFPKLIDSYNKPNVY/LASLILLETSCLIK LIWE/QNPFMCKMQRARTVKTL/ SKKKNK VEK
6774	14825A	7482	2	253	SMKKVERSKISILSFHIRKLEN/QLNPK*/R RRREIKIGAEINIEINRK*IEKINETKSYF/ WIKSKPLAKLIKEKTQJITNTRNRAY
6775	14826A	7483	2	1114	WSHRDWICPASGFQMLNVGSVQILRK KLMTYAL*LQLQTVWRDSRLLCREGAP K*SL/SSLSPESRRQSSEFEKAFTCOLFINA AVDSPAIDYHIIASLAQSLQICLTHPELQN EICCCQLIQTRRRQPNQOPGQLQGWQLL ALCVGLFLPHPPFLWLLRLHLKRNADSR TEFGKYAIYCQRQCVERTQONGDREARPS RMEILSTLLRNPyHHSLFSPIPVHFMNGI YQVVGFDASTTVEEFLNTLNQDTGMRK PAQSGFALFTDDPSGRDLEHCLQGNIKV KPSPFQEPSPINTSKCATEATLYKKSLCKKFN SGVQNFQNFQNSNLHDKKKMQDFVKPIEF LHINLYIYTFLHIKERKGVSNGNDTLSIRJ RVDM
6776	14827A	7484	4	252	GDEVEY*SIYSLAPIRHWRNQPRASTLW LFFFHFFFFF/E1TQSCTVRLDCNGMISAH CHLRPLPGSSDCPAS
6777	14828A	7485	95	670	FLEGWVAHFPPPKKGSPFKIPKEGKFTP PKRKKKIHPSPHPPNLJLGPDRLLKGPB/HSS SSSSSPREVNIYCSPPREGHGR*SKVSSW STEVNPKPV*DKFPHPTSY/ATCPPLPQGY KTAVFYSPPK/HMOSLPTFQKACSPYFS FSHHSDQSPTLVAPPFFPCLMRSSDKLM NDVPAPVFLPSFKGNHJACCS
6778	14829A	7486	2	338	ENGWCWIAITYGRITK/TGFLS/ITCKS*LK RDLDLGTETMEILEBNI*GEVLLDILGK/ NFMITKTPKADESTIEKINR*DLKLKS*CTA KKS*1/SNRQSTIEWKKIFGNYASDORTS
6779	14830A	7487	117	334	LYAHKFFNLDMDQFLQRHNTPLKLOEE /HRLTVK*IKSIVINLPKQKA*GPDGFSGE MYQLLKEEIJYNVF

6780	14831A	7488	325	353	CILKDRCR*LYAHKFNNLDEMDFQLQRH NTPKLQEETDL/SIK*KSIVINLPKQKA *PGDPFGSGEMYQLKEEIIYNVF*RTDVE G
6781	14832A	7489	3	458	SXREITTLANNOQMATESVDHIELGRCTN SVVVKYELMRSNSKAPLLVLCEDHRGRM VRHQCCPGCGGYFCTAGNFMECOPESSIS HRFHKDCAQSQFNWASYCPCHGCELESSK AKEVTISLKQTPPRPWTVPVGQE*GSSLV GRADTTPGSAR
6782	14833A	749	2	333	QRKGKTLPDF*SDFG*QLNGRHTHFO/HP VVGNPGSGWKEKETKGAGPLCYPPSHS KVWGRATSSVSEGGSSQRAGHLP/TSPA AQQGLECRNTLKPVRRAVAVRLCYPPL GG
6783	14834A	7490	49	457	MHNPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDPPSPETP/GCFSSRRPM PTREPPKTRGSRGHLHHTHPGPGBPLQGL APRGLKT/RRPPPSVPAAGTPQKDQED CV*G*VALPGPPGRQEAWSHSP
6784	14835A	7491	1	816	MDEAQPQEALGASDWQTCSRTQCLQRC KARSQSDHFH*GELGVSSPRVHPOQAARRP PPP/PRGTRRPP/GPAHOQPNP*AASP RCPPGSPQRLLAAP/EGHLHHTHPGPGBPLP PAGTPOQKDQEDCV*G*VALPGPPGRQ AYWSHP*GA*A*APPSSRL*A*VPASEQ* EGTEPLCRSVPGPVRRVLGAPARGGVCT GKAQAAGGPAELPAPTPKPEGGPSCS LEGV*DEANGSWLPGQAGSLPLPEG*TE ASQDSDEPIR*PRTRRPSARKPLSCFSRRP MPTREPPKTRGSRGHLHHTHPGPGBPLP GPHKAKTKKIVFEDELLSQALLGAKKPI GAIPKGHKPRHPV/PDYELKYPVPS RSRYVAVFQDQYGEFLLELQHEVGCQA KLRQLEALLSSLPPQSKOKEQVAARVW REFEMKRMDPGFLDKQARCHYLGKGLR HLKTOJQKFDDQGIDSEGSVYF
6785	14836A	7492	27	445	MINPDGSASPTADPGSELQTLGQAARRP PPP/PRGTRRPPQDPPSPETP/LSCFSRRPM PTREPPKTRGSRGHLHHTHPGPGBPLVSLD REGVPRPGL*AKDLAPAV*GTPVFPPTPRF NSRPRFFVAAAATGAPRPNQQRP
6786	14837A	7493	1	368	FQNLTLISAHCNLCLRFK*FSCLSWLDD HVTCLDNFLYFW*RWGGFYHVWDQAGL KLLDSSTPSAS/SFPKCW/DYRHEPCTWP* KYSFLTEH*LIPVY*K*IAKPPGPKQIVKT FS*GCKNI
6787	14838A	7494	10	504	EGDGKTPVLRGFSSVSGSWRSRMPPLL LTCLFTGTTSVSPVALDPCSAISYLNEPW EGTDIHQLDESQGPPLCDNHVNGGWYH FHGHGRGDAMPYLSFFTRKPLWEPTAPV WLNGSHPL*GDGIVQRQACASFNGNCC WNTVEVKACPGGGYYVYRITKPSV
6788	14839A	7495	84	250	NRIENFEIKLNTDSQLLPR*FNWER/DSSL FNKCWWNWIFKCKTMKLDPPPIPDKN
6789	14840A	7496	63	743	SSCLLA/AFRGPAHASHP*SPAHSKKRPI HAQLFLPLVASPGEPEPQFGFAR**SCCLPVP SPGPVLPPSWVYSPS*LKTTYFGSAPAQ HLLAAFGVGLKLQPQVKRSRPRSCCPGAFIT PATA*RWLPQAQVLPSPSLPRSPSCLTV FPV/HVTACYPTALTDQTLPSHWTW*DKL IRLPASPGQSSCLTLSIGPAGAESAMVCL GPHSAFLKTLQATIWPDTFCFCGPM
6790	14841A	7497	340	368	VPTICQVMSS*HFHPSSSSSSSSVINY*/ FGLLLC/QVAHFYNSIDQQQMIQSQRPM LQSALAPEQIIKVNGLI

6791	14842	A	7498	2	826	LVKKTCVEPLOAGRLYLDHHHQSKPFKLKLSKHTV*RCPLGIQTIGPVTLR/AFNLRLPVLSPQRVPVEARPRKECEHTESFKNSEILKPHRAKPYACNECGKAFCFSQSSLSQSQHQSHTGEKPYCECNGKAFSQQSSLSQHQSHTGEKPYCKCSECGKSLSAARNANLTKHQANPHREEEALTCSEKEAFS*LLSLVOHQRIJTGKPYECSDCGKAFRHSANLTNHQRTHTIJEKPYKCSECGKAFCSYCAAFIQHQRIHTGEKPYCRAACGKA
6792	14843	A	7499	64	372	KLSFPFHRESVNEIKKTIDWENICNTYE*KPVTYK**FLQIN*KEIN/DQIEKWTKATRNQIAEEEQIVNKHIKRYCSASFRKKQIKTKKRCHFSITGKNYKE
6793	14844	A	75	3	298	
6794	14845	A	750	444	999	HSLTATAALTGLSLSLVLISSPCCAAGLWA SDLPSVSLPLTQRRLWLPFPK*KWLGG* QRGPAPLVSCPTAPWFTQERERMKDGDSIS HAPSPTLRHPGVGGRSPRPLAWSPVGAIGMYPLTGPLPPPPQRSPSWISGPSTPLSLC PSPSTRSQGFPQPGLEVCVTPIELLPEVRL KIRECLSLVSVK
6795	14846	A	7500	2	414	RQGL/DSVTQARVQWSQDQ/GSLQPRSPG LERSHSHSLLSSSW*FEISFRTLQLQRLVITGN ILGHQKITGTNHR*FMLYSVSCLFFEMES HSVHQAGVQWHDLSSLQPPPLGFKRFSC LSLWSSWDYRHPSSCLAYCIFGST
6796	14847	A	7501	18	73	SYPGAAVSPAPWSPGASPLRSSLPEHLRL SSASSALALAKNALRSRASPSPAAQ/ALPSP SPLLWPLTSPGRQASPVAPPASNGT*W GTC*PEAIIGLQSAQPPGAPGPBH
6797	14848	A	7502	3	363	KTASPVQVKFCAGVALPNLKQRPRLREK AQACCI*PLLMARFRNTGRIPCFCSNCIPVLP GQKHGTEDYWFVQDRLRATRQIFKAIYLVL IPDAYTLFMITLTSLEYW/WSVLNLKDAFI CIPLSPE
6798	14849	A	7503	47	231	NCSSVVFCPGSQRVGSIKGKWS*GWVVA TGVVNLNPLKAVGQQEYESLKMEGPRPE VTCRHL
6799	14850	A	7504	1	3099	MGSQCSGGERLGTSPKYSMKGWEFAVAK QCQGCPCPVQLGTLRNDLSLEAQLHEYVK QGNVVKVKLKKGSQPHSPRVHSLFTE GTLDPQAPDPLMARETQNQDAPCPAAPP MAEEASSPSTGQPLSCSFENIEYSGCLIL EDDIEPPGAASSLEADGPQNQVDELKSM EEELDKMEREACCFCGEDEDESSKAETEY SFDDWDWQNGLSLLSLPESTREAKSNL NNMSTTEEYILSKCVLDLKIMQTIMHEN DDR
6800	14851	A	7505	2	707	LTH*IIIAGEKPYCKCFCGKAFCNFQFSNL TKHIIHTGEKSYKCEECGKAFQNSNL*/ KQINDGEKPYCNEECGKAFQNSNL*/ HKIIHTGEKPYCKCEECDKAFNQSSIFTKH KIIHTGEKPYDCEKYKGKGFN*SSVLNTH III.TAEKLYKPVRCDSASDNISNFNSNHK RNHIGEKS*KCGECNKVFVWLSHLIGNI HIGKISYK*EQCGKVFN*YTLHRKSFIFE KNCRN
6801	14852	A	7506	1	681	IVTADOLLGGMGQWAIRNQTMNLDEV1 EQLWKCCCLDAWDKIQDDDKLCPCT*QP SDGAQT*NRIPHNCNPICPFDAAEKSY*IA RANDLL*NLMAYEVNPRL/CQVACIPK GKIPPGDVLTSYIKVCEGVRGLTRTAM VMAQAMVSIRMPGDFPGKCFCLCSQSGH SKRNCPWHTDRCSFQHQQPKFFQQQAP LSTICPRCQKGHNHWVACHSKFIDGNP LRLSP

6802	14853A	7507	2	342 STVKGPGCSMCRTIHHVPHIMGFIVGVQG WHDM/C/KSINVNHSVNRMKNKNHMI/S NDAEKAFDT**SVSIKT/L/NKLEVKG M YLIKKVAYDRLPAIIADD*RAESFPLRL GKR
6803	14854A	7508	1	358 VFOFSFFKHRRNQKVPEPPPLSLKT/AKNLFA QLAENIASCLDDSSCYGKKANIRDQWP *EAKELMPODNPN*LFPQTDAATRSIW/L LKTSKKYHVTHYEKALKTHEKELTCLR HDRVTC
6804	14855A	7509	2	681
6805	14856A	751	172	431 IGRPTKQGLGQWTAUWERMERTNKSRA WPNAECGPAGVNHYIAWASGL*MLKT RAARTWVQAGVRESAQGFLNKNRRIE MGLSR
6806	14857A	7510	670	1466 KKIRPFFQIFDGFISNVLFVAQSGFCCLP VAPSNTS**LKAATVATGLEVPDSVSDRA FEWLSASFPIDSPSYIHHPRRIQVFILKRE GSSRRWVLPEPITADSUPAYSSKVLLSSP GLEELYRCMMLFVDDMAEPRETPEHPLK QIKFLGRKEEEAVLVGEWSPSLDGLD PQADPAG/SWVRTAIRLCAGPELGIDL/ AVTKWWRFAEVSPVAAGDPGGQLQTVV VYLPGLDHHAYFGRKWECPGAKQKA ARGSSPNPGRHKG
6807	14858A	7511	155	359 VNSSHQRDWNRIGGP/ETNAIYIYQQLVF GKEAKFI*WRKNSLNFNKWCWET/WISLQ KRMELDSYLTAYVKI
6808	14859A	7512	2	495 RKDILYSWARRFNIVKMLM/LPKAIYRF TVIPIFIQLND*TAFAEEMEKPVLKFI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSSS SSSSPVNSSHRDQWNRIQGP/ETNAIYI GQLVFDKEAKFI*WRKNSLNFNKWCWET GPPYKKE*SDSYLTAYVKI
6809	14860A	7513	155	359 VNSSHQRDWNRIGGP/ETNAIYIYQQLVF GKEAKFI*WRKNSLNFNKWCWET/WISLQ KRMELDSYLTAYVKI
6810	14861A	7514	2	495 RKDILYSWARRFNIVKMLM/LPKAIYRF TVIPIFIQLND*TAFAEEMEKPVLKFI*SY RRP*IAKQS*SSSSSSSSSSSSSSSSSSSSS SSSSPVNSSHRDQWNRIQGP/ETNAIYI GQLVFDKEAKFI*WRKNSLNFNKWCWET GPPYKKE*SDSYLTAYVKI
6811	14862A	7515	1	399 VNLIWEDCAGQAEVLHDSYGIIDWSPK GMFSMNCTISQSICPWPHYVQLV*TERSD SRNDKKYGKSSYYLETWQYSQG/FQPQMI WFAVGAKHKDL/WKLIAFDKIKIWEKGK YTMAPSQYNPNYLEVENNTII
6812	14863A	7516	10	225 VCNTIIHGDFNTPLSGMDRSSR*KT/NKE TSLENNITYVDQRSLTDIYRTFHPNNLMIHL KELEKQQGTKSNI
6813	14864A	7517	37	348 WKMGQPLGRPQLPQLSQEKEILSLSNPV FSSSPK***NLPKKKRDPCTFKFYQTKEEIPFLKTHQEFEEKKEILLKSFVYEGSV V*AAKLNADINKKITH
6814	14865A	7518	3	353 CRL/GKLGRSRREOQA/VIREGEDTLG/SET EAAGRPGASLRQQQRGRPWLNVPVGKH GVP/GEHHWAGEPAGWGGSVSQAG*A ESRLSSGHHSQKGGA/VMLLAADRRRG ORRGGSG
6815	14866A	7519	54	284 NHK/PEENIGEKL/YDGL/N/NDFLDMTPK AQAMKAKVDRWYGIKL*NLCITSKETIN R/NNRQPMLKKLMANHISDKR
6816	14867A	752	253	428 QASGVSDLQ*KLAC*AQSQDLRGGGFR EARKTST*QPGFGLLFCILLYSANKLQESV TFKDAIIDSWEEGIQAESAQRMVTYGE VMVENYQEPGPGLKYLQTRGGGLP

6817	14868	A	7520	29	261	NHKTPEENIGEKLYDIGLNNDFLDMDTPK AQAMAKAKVDRWYGIKL*NLCTSKEITIN R/NNRQPQMELKLLMANHISDKR
6818	14869	A	7521	5	2088	LSSPSQGRGADSA/PGEFGTQLPPQGGE LVPQHLAQPHAVPAAE/EVGPAAWWPGAG P*TSPSGGRPRRLCPAPGPPLPLPAAGPG SHGQPFMMLDGLVPGPGGSAGSGLP SSALPUPRGEVGTPGIRGEGLRHTGA/G APSHISHSTCPSRRWQAGCPPTLTAPPNG WATSPPPPESCRVSGTSR*A*NPGHA ASSGRWRDGPAGAAGPRPG*AHPA*GS GASGSSPGPEGGRARGT*PCSTEPSPGH* STGPSPCPAGGPRGRILLPLPGPDQGRW APTSGIPRLTG/PKLQJPTSCPGRKLAEG EAPGLMGVQVRQCEAQHTQRVPWLVV LQEQQDAVCVELEPVVRVPAGPGRQAADG RGCHRRQ/A/P*RAGPGRRLPCSCTAGAA GSFPPAPRSQGQQGQGLLGLAPGTAEEQAA HRAEPPRCKMPA/*PGCVSTTCPCVSAS ELGTGPSEPLAGRWRREAGSSQAVGLAA/ GGGGCDORTPAFGS*GAGKGLRGP LVTLSAVGRCASEPAGGASAAGRGRGS GSREPRVSGASRSPCC*AGCRASSA GCRPRPGRA/GSAGEKAADTYSCCRAA/S RPERPSRPGARS*TPTVRYTA/GMVGGQ GLATPGSPCCCPGPGPGRPRSRPE/SFPR ADPSGYRGLPADRHWSKG*GPALPGPG RSQAWALLGPQHPSRSPAPAGAGRGRAG HRAR
6819	14870	A	7522	45	301	AGHHHHWRKGPEAPRHEMCPGSSKNQGL VQGLAGGWGTKGKILKG/SSTSPGEPGS QOHLKKAGTCGGSSKDRGVRNYSGR LLRR
6820	14871	A	7523	453	704	AGHHHHWRKGPEAPRHEMCPGSSRGSEG ATCFARGR*RPPGNSLNVSRMGTRSSYS CRRHSPAFLSWKGCRCHLCNKAHLLAG A
6821	14872	A	7524	3	543	TCC1QAAGTGGSGAPGLASVVGGAAPL WSF*NSL*QIRFAVPLPGCRAPGTFPA FLYSQWPFFGPQWARSALARGEEGVGV LAPHQPTWPGRHEQSPRHFHGVGH HHQHVMALGADMRRGLAAVAAS* AGRVLGWCGRPARRAACLQGQEGAQGT VLAALNGLLFPPSRRHG
6822	14873	A	7525	218	533	AARRAGRPHHPKTRPAQLATSAATAASP RR*GRPWGRGLGPAAWRPGGRGAALGA ORCGHGVRAVPVARAELGAAGFGGAA GPGAAARGOCPALLPGRVEPRAARGVRT TPRPGOLSSQQAQPRARRAAYPRREP* HADDDDDLLHGADRSSRFGEVEHPVQGH TANPSDGPGVQHQHQLPHRHYHLHLV *HSRSPGPGATG
6823	14874	A	7526	3	1185	GPRR*GRPWGRGLGPAAWRPGGRGAALG AQRCHGVRAVPVARAELGAAGFGGA AGPGAAARGOCPALLPGRVEPRAARGVR TTPRGQQLSSQQAQPRARRAAYPRREP* HADDDDDLLHGAGGVSVPRGAPARWA AGGVGRGRRLPWPWGERSFSSSL** HSQICFFSS*EOCGWEVGWVGDPSDGG PVQOHQGH/PASQOLPEWKVAEVTDGA RSTEDTSWKGAGGS*EGGPGPIP/PGP GAGGLPGHNGLDGOPGPQPKGEKGAN GKRGKMGATG*L*RYWHLOGASFALL *AGHHHHWRKGPEAPRHEMCPGSKGSFR ENGHTPSKPAQSSSEQ*LPHSPTYOSGRW QKLLLMGGQVQRTTHGAREOVAAPRKV DLIDHQDLREPAGCQDTTDWMSLVL AQKEKKEQMEKEEKWGLODNYEDMAG ISEELPLPCYEQAITTGEKAQHQGTRCA

					QGARAASEKGTGTHRPSQLNPQKASNYH WNYTAAMDRSYRIIIIIIHEHRCRIMMPIG LSWEVLQKCDSVLRPRQWA
6824	14875	C	7527	35	217 MXDSRGXRXP GARTYRESPGXXRMXGR SREIARWP RRPLAPLLHRLLPSPRPGIC GGAA*
6825	14876	A	7528	2	342 RALPPPKDPSLSSIGSYRV PAPES VEGPL /SPWERKQPGERPLSCMS/GLPQLRVGGV RG**EPQGLPQDGDPAHTRCGAEPSLLD SLPDGQVQDAAAASF LHTPSQTPCVQRE
6826	14877	A	7529	2	440 PRVRPRVRQSSHLSWRCRVPPPPP TMC L SAHPAPGPDPGTCS ESHRVIPMTSIAQWG N*V* RGEITCLSKSQEKGKS*GHGASC P CMT GEKKCPHE WG*TGP HQLPG/M SHMFVC I LRLAGLSPARTAARGF LEVA AAF KGTIP E RKPLM
6827	14878	A	753	963	1497 NTALSNEEILVMALVVISFLSLTFFQLME GTRLNKLWGFPIRTL*FSE*TLSSIKAKL LTILT PSLKFNRREV KNEVCHF VEW FWSY HNNUK M VPFISMIPTLNKMKAFRT FICK MTVNINNMH QSTIYAKGEEHLMGCV YN C L R TAC FM AF AVKKKL LAFN MY PKI Y SCL GENF
6828	14879	A	7530	3	471 RALAAAERPLAPLH RLLPSPRPGICGG A *PWERKQPGERP/FPVSQYPLSAC/GASP PG/PL/TG RGHGADAPRRTS*IEVG SV SVRDPG*JEQGS DGR LPIGH S RWD ERGL R GLOFVTGK/PWIK GQA ILPV GPSK VV GLG YTGRGA GLARS LOGY
6829	14880	A	7531	2	1021 FFFFSCETTIENLIFFSGEVSNLILPVG H KG L*GGVKEEGCGC VGLR PAVG SPA G MAQPSA PGVQAGSSILEE GLEVLSQ PRA PSRGSQGPVSPSW KV LQ QPV RRT TPH ASWGKP THASSFVGGLG A QGGK RML P LG GPOCRPA GQGAHL YV VCP EFS A FIR GL RSGM VPL KKA AT S*DTS GSS PGL GEPA SP QLH FN*SLRGASSV PL ST AS PPE PGGL R TQ AL GR Y*ETG KWP FTG L LPL P RL SGPS T DS GA GTR *EP MEER SE SGL /ER PAR DPP GSVPT CGWGRGSPGTC G/LPG QRPL GR AL RAA KTR PG CRAT DRGV PPV PGL P RL CR
6830	14881	A	7532	40	403 QWIRLAACS NLAS AVSF RIFLYY GERRP SGG ARPM L TS PSL TA W INPLS QQL *YL AAEQPQL HR GPP RT PAP VSG AE*RWTFL J IARTH CL RRG QG ROP PPPV SG AT GAPS FPL QQ PM PRR
6831	14882	C	7533	182	289
6832	14883	C	7534	50	223 MEO LCT KVR RF KIT TLL ALI LXXX XXXX XXXX XXXX XXXX XXXX LFS ILY EW YP CH LK *
6833	14884	A	7535	3	398 S NL AS A VS F RIF LY Y GERR P SG GAR PLT SP SP LT A WI NPL S QQL *YL AA EQP QPL HR GPP RT PAP VSG AE *RW TFL /A HT H CL RR GQ GR QP PP V SG AT TG A PS FPL QQ PM P RFT

					PGASSSHQEATKSSTREF
6834	14885	A	7536	287	568 CLRDGSPEPSCGLHCHCPACQ*PTPHPHY KHPAGESIPGNTPMASRKRPASPTSRL RAPPALILSFLLCKMGTLPHASRCGWKE RSEIVLK
6835	14886	A	7537	574	1266 SIPCPSSFSWTWLQSSRNFTEDILASVLISA STQSAQSRSQPQNQLCKGGSSQAPPASS HIPSSHGWLCLDDPPAKDIDFPLVLPGI PYAVSHQCRLLQYGAAYSACFDMDGDSS LISPWAKYPKQRPOQGVFIRVPKKHMOK GSACPWPVRGKSLPVKMHNPGLAGR WKSS*STWT/IOS/RSCGLHCHCPACO*PI POPHHKHRPAGESIPGTTPNFCFEKEACV PYFM
6836	14887	A	7538	1	785 NRQLSCGTALSTTGGIYIGERSVRVWGH RFHCLGNESLLDNQCMVTGLAPPCHGN TVSVICLGSLTQPLFCLANVSDFYLSSAV PEGSALICILEDKRLLRVWDGDSRCAGRVEI YHDGFWGTTICDDGWDLSDAHVVCQQL GGGVAFNATVSAHFGEGSGPIWLDLNL CTGMESHLLWQCPSSRGWGQHDCRHKD AGVICSKFTAFLRYSETETESCAGRIEVF YNGTWGSVGRNNTITAIANGCCRHLGC GRRNGC*PPICHGNTVSVICGTSLTQPLF PCLANVSDPPYLSSAVPEGSALICILEDKRLL LVDGDSRCAGRVEIYHDGFWGTTICDDG WDLSDAHVVCQKLGCVGAFNATVSAHF GEGSGPIWLDLNLNTGMESHLLWQCPSSR GWGQHDCRHKDAGVICSKFTAFLRYLS ETETESCAGRIEVFNGTWGSVGRNNTT AIALRILQATLAVGEEMDANPSPL
6837	14888	A	7539	1	1113
6838	14889	A	754	1	363 WIREPHSARPRLEPCYDLSLQLPPGLK* CSHISLSPSSRDYSCCATMPS*IFCVFGVE MRFHIIVAKAGLKPKPGSNPPASGIPKPCW DYRCILQFSSFEAKPRMLIFTLFIICSGH VMMMS
6839	14890	A	7540	1	214 VAFFKSA GASVQEKOQLQEQOVKEQRV CCQLRALHPVASAQKEPEAARGPGAP/WA WGRV*QLYGPPEGEGRP
6840	14891	A	7541	3	141
6841	14892	A	7542	39	210
6842	14893	A	7543	72	353 QRCPGGHIYSHKFSPNDSVLPGTVVCESP QPNGPGFDPTFWQWGRPIYPRHHSALRL QS*ROSQSP*VCLAGSILLCPWRLGHG LCQAHPGQ
6843	14894	A	7544	5	726 AAISYSGRLLSQPVVVESIHPYTYDTSTS GTVKPGAEGLRVEFDRCNCNTERRHDP TVMDGVNRIVSVRSGREWSDWSSSELRI GDELKWKFIISDGSVNGWGWRFTVYPI PAAGPKELLSDRCVLSCPSMDLVTCILD FRLNLASNRSIVPRLAASLAACAQJ.SAL AAASHRMWALQRLRKLLTTEFCQSQINIR LLGENDGETRALSFRTGSALAALVKGLPE ALQRQFYEDEVPIVKG
6844	14895	A	7545	441	1009 GLSHGRNTGPLTTSQASTSPRGNNPRAC VARTRVGVGPATELLWYMEEMRCVOLFCY SKARSQCSHOG*DV*VFYQFACVVSDT WHYLQPLTDG*YA*KLS/D*VMSGPILA TGPCITSHLA*LLDSEPLERSVSSFCWKWDV RLLGKTSLCVGLEALSSSEI[NCLLGVF VWNLAACLGSACCRVFLRDT
6845	14896	A	7546	59	378

6846	14897	A	7547	31	302	KGRRVLLWWGDKNIIERSWHKGVMQQR VODRQKRKLQLMGKKRSQRA*ILSGTE HLHVHSHLLCQQQVSTGRALHHLLP*RI WRARAKNEQ
6847	14898	A	7548	1171	1731	PSWPSAPSPSGAPSADASCGLVPVMGR KMACWPVDIPKTWDWSNPWQKEKREIVS SEDAVTPSAVTPSAPSASARPFIPTVDDL GAASIAETMTKTKEDEVESQNKAAGBPEP QALDEFITSLLIADDTRVVVDDLLKLSVCS RAGDRGRDVLVSALVLSGMGTAYQVAD MILLECVTEL*NPRSKTP*CFSCRACDEE VSIALECWEPEELPRTQSFLTTTQRQAQN TMNKLNFHNVMODRRSVCIIFLPNDES NIIDKCLLVFSWGDGFGLGRGGSEGC NIPONIERLNGQGVQIECGAQFSLALT SGVVWTWKGKDYFRLGHGSVDHVRKP QVVEGLRGKJVHVAVGALHCLAVTDS GQVYA WGDNDHGQQQNGTTTVNRKPT LVQQGL*QOKITRVACGSSHSVAWTTVDV ATPSVHEPVLFQTARDPLGASYLGVPDS ADSSAASNKSISGASNSKPNRPSLAKILLS LDGNLAKQOALSHILTALQIMYATDAAV GALMPAAMIAPIVCECPSPSSGAPSADAS MC*SP*MGEKICLLAC*YSENRLSPNPW QEKRIVSSEDAVTPSAVTPSAPSASARP FIPVTDLGAASHIAETMTKTKEDEVESQN KAAGBPEQPALDEFITSLLIADDTRVVV LKLSVCSRAGDRGRDVLSAVLSGMGTA YPOVADMLLELCVTELEDVATDSQSGR
6848	14899	A	7549	2249	5398	KCHLRAGRRCRDVTIAFWLQSSFMQDQLE KADLIRKSITFYQNQGGRAKADALGGHH HQAGAQGGDEGEAAGAAADGVAAYSN YNNGHRKFQFLATAQNPADEPFGPGAPAPQ ELGAAGKHGGPLNRLSFKLALIRDMAI LPFQWNLLISFNANVLGLVFSWGDGDRGK LGRGGSEGCNIPQNIERLNGQGVQCIEG AQFLLLATKSGVVWTWKGKDYFRLGHR SDVHVRKPQVVEGRLRGKJVHVAVGAQ HCLAVMDS
6849	14900	A	755	1	433	FFKNFYRJNRDSYYKAACKFPVLCISSFH SCYSTCLPQAPLPQAWLNLRSSGVFLLL SIVRADVPTPQFLGILIEAPPQSQYLPFS SMGDGLMLHPNRKVGLQTLTSRPGEVAHT CNPSTLGGRCGRJIA*QGEFETSLSGLSIS
6850	14901	A	7550	1	609	AAATTTTKLAARQPLQGGGGEASAAGA GAGGREVIYLFATASAKRGGRAKRPTG AQSSGR/AVLPSLGPGRFLAGVC*GSGG PSPPSPPPNNHSG/QPGAGGEPGNRGPKM GVIALYSLHL*VPCGVSRNTLPAGDGNPV P*SPFLFTWSP/VF*PWG/ANGPWADP PPSTHTV*PSGPPGASGAGPPSWPRPA KGFAPRGL
6851	14902	B	7551	222	360	XAVLAIRPFWDEVAEQFLEVSLFLFFFIFS DPRPRDRLRLRLERLREPT*
6852	14903	A	7552	1	601	RDTSRNCSASTSQCRKCASTAPGAEG/DGP QASGRGGAVTRGRASSGRGRSVMPCL CSRA*DVRARRRSQARGSSGKHLHLCSG KPLRKSPCSRSVPAPGOSRGRFTTSSPP GFFAPSPCITERSRQKARRRTRSSSSSS SSSSSSSSSSSSSSSSSSDRKRRGRYKDK RRKKKKRKKLKKKGKEAEHSRQSII
6853	14904	A	7553	42	384	LKSALSHGGAKQAGDPNLIPPLPLRRD WAGFETNPRKGKHQHPSGPFPLAP*NLPR LGRQRSSSTGLGQRGPGSKQPSHLEGQA VPSGRLAGEESTQDGGRGTSQTDAGGW AGM

6854	14905A	7554	1	713	AKAGAGLEAR GAMA HVGSRKRSRSRSRS RGRGSEKRKKKRSRDTSRNCSASTSQR KASTAPGAEASPSPCITERSKQKARRTR SSSSSSSSSSSSSSSSSSSDGRKKR GKYKD KRRKKKKKEEESLKEEGQRKKA EAQ/RGRASSASVVDP*DGAHQAY*REM /DEGPKRS*PKNDTERSTSQA TORGTA GHCQMQSDGYASREGPHGQQPDGRQL AAQPQVSGCOWEA
6855	14906A	7555	2	642	HALITAPINVLEVLSVASVRQEKEIKSVI GKEIKLSSLFTDDMIVYVEYPIDKNA/L LEISNFTRVVGVYKVNTQNSVTFRVYHQ *AS/EYLKLKKILFALEPPKVEYLSNLTK HAQDLYEKNCNTLKLIEKEHLNKWREILC G*KYSVFKMSVLNFVYRFNAVPIQPV CFVGI/EQT/SLKFWKAKRPRRIANSILIE NKVTGLTLPPFKKA
6856	14907A	7556	3	577	TNECCGKTFRHNSVLSVIHHTHTGEPKYK CNECGKVFPNRKAKLARHHRHTGTGKH* KYEEDCKVYIIVNVQVLKDRRHTGEKAY KCKCS/CDKNLGRDSHLAQOQTRSHTGEKP YKCTECGKA FSGQSTLHHQ/AHIGIGLY *CNDYHVFSNTTTSVSNHWRHNERF*K CNKGKFRRHCSYLAVH*THAGE
6857	14908A	7557	286	336	GL*NTTS/PKISTEVISP*AKPPVMRGQD SVLVHSYDDEEWNRVWWANVGKSLSCS IAVMVKLIERDGSEASGGINDGEKERSL TDAIPSLPREDWYEQLYFIFLTKECV
6858	14909A	7558	2	246	RPLKHTLVTCDKGGL*FEPFSVSG/PPRC A*GDGTKEV/PFIGTATFYHYLPTAYGC MLTST*RKVEETELDDFYDGNSSRRGR
6859	14910A	7559	3	348	GWRLLVRPLFMGHRQPVISGLQFEOPLHL KL*FLCSGVPSDCASEPSPV/QSPEPKVVF EQLARRKLQAEAGASAATLSCEVAQAO ETWVYKDOKKLSSSKVCMTATGCTRR LUVQQ
6860	14911A	756	362	567	PAPFTGTWDYRHKSPCLANFLYFY*RQG FHIHLAGLELLASR*STHGLPKCWDY RCEQHVOPENIF
6861	14912A	7560	16	220	HREMKTGNDLKLQKVNLWHLYTAY *KRAIKKSKLVLVHTK/TWVNKGVLSE *SQSRQVKYWSTRP
6862	14913A	7561	204	868	KGNQHPSHEYSWKFRTLSLS*KQF*VLR YYRRAVKLVNMSNIAEHPGFMKTGECL RCMFVNLLGCIHFA MSKHNLGIFYFK ALQEE*QCLCTAPVQVALIQVQVNFQGRP MCTLNPIRGYEEYLNGCISLHHIGRPL AAFECLIEAVHVYHANPRLWLRLAEC AAKNGTSEQETKGLPSKKGIVQSIVGQG YHKKIVLASQSIQNTVYNDGQSSAIP
6863	14914A	7562	1	1047	MVSISWPDL PASASQSA GITGLIGALVL SVGI AEVER/HEIP*NPKCLPGSSHIIPIP PGRRHVHG LHWCA GVP*OPPELLA SL RLSRGYG VLSW LERPYEK MISM GMYLG EIVRNLI DFTKKGFLFRGQISIETLKTRGIF ETKFLS QIESDR ALLQV RAIL QOL GLNS TC DDSILVKT VCGV VS RRAAQL CGAGM AAV D KIREN RLDR LNV TVGVD GTLY KLH PHSRIM HQTV KELSPK CNV SFLSE DGS GKGA ALITA VGV RL TEASS
6864	14915A	7563	77	2246	
6865	14916A	7564	1	475	HKNNMTFIYFS SIFC FPPRWSL/D SV AQA GVQWRDLGSLQAPP GFTPS C L/S SWDLQAPRHRARLFLYFLVEMGFITL ARMV SIS* PRDPPALASQ SAGITGVSHRA RPET YNFC SFUSSI LPV E PEAR KMT KNSD IGEW INL GTCLIV

6866	14917	A	7565	3	362	SAIIV*DINTVPMGGTTRQMINKEIEDVNS AINQEDLLVIYRTLHTAAAEFTTFSSLHE VSSNNDMMILGH*TSLNKF*SIEIIQNMSDH KGKJFEINNKEI*KIKHYYEISSTLSKQG
6867	14918	A	7566	188	1055	VIAAEEGDSGSAWVLDEADPTGGPGLG CRGTKYLLRGAGGLSD(GGPCGPGLD ALSPKPPGLHGPPSGPAIAG*DALSRLPLR AHSENWPGAAGGSOSHRA*VGs/ADQAD NDTEGNNKDPGRPQAQPSCRGSLGPATG RSGWPYGSPPTWGOGPVPTRPREGPAVG RIEAKGKS/NVGGTGGMAPSPSRCTNLLS LPKLSGVVV*EAWNPGRADVHIMHAVGLI KTSHEWLDPPADDSQAGSCGASGGQEPQPA ASGSAAWRRCSSQGLGLRRLHQQQEEGP SSQHVGVGCVPFCGG
6868	14919	A	7567	2	380	AR*LFSRVNHNIMVIGHKLNLNR*KIDIIQSI FYDIHNMSMKLENNNNKRKTGFNLUW/RU* IHY*TTHK*KKKITREIEKYKLEMTERNK TYRNLWDAAKVVFPGFIAIGAISL*KG GSKPOVS
6869	14920	A	7568	1	370	GTSAPWPQYKLDNDSK*PENGTFEFSILO VLNDSCSHKMGKWSVEWPDVQAFPSHW LPSLCQC/GLIPNLSLSSFPFWSF/PPPQV PSP/TESFMSMDSSDLPPSPQAAPRQAEPG PNSHLASAPPY
6870	14921	A	7569	3	369	HEVKTMKILEENGEYLIDLVLGKDFINR T/PETIS*NKIYKFNFIKUNFKCSLKDILKEI NRIDWEKIVTKHSDKGLVSRIKKFHDHSV /VKMRTQFFFPKDKDGLRYFTNKET*MV ASGHLKMC
6871	14922	A	757	204	389	DMGYDVTRFQGDVDEDLICPICRGVLEE PVQPCQTKVICIILGGQV*GEAHDYHAPYC EHAFC
6872	14923	A	7570	1	2722	MGSAVPSQACALELLLIVPWGACGVSQE EEESPAEAGSKDEPGEQVELKEEAEAPVE DGSQPPPEPKGDATPEGEKATEKENGD KSEAQKPSSEKAEGAPEGVAPAPEGEKQK KPARKRRMVEELQVELVVLSDLPDIPEDK LAQSQVQLQLQDLTLRDLEKQREERAANS EAFIFETODKL.YQPEYQEVSSEEQREEIS GKLSAASTWLDEGVGATTVMLEKELA ELRKLCQGLFPRVEERKKWPERLSALDN LLNHSSMFLKGARLIPEDMQTEVEMT TLEKVINETWAWKNATLAEQAKLPATE KPVLLSKDJIEAKMMALDREVQYLNKA KFTKPRPRPKDKNGNTRAEPPLNASANRA FSPSLTPWADQNVLSTVSPYPKILGKGET MVVPVRVFGRMVGKSRREAVAQAMVLEM FREEDYYNDDVLDQMGMASILGVEGPRR HPDDEPDEVFELPFPM/MGGLSAHNRA VLAOLCPKINKNLDALEP/AQAIKKKLKGK GRQLVPLPSLELLDH.FFHEYEQNQRFSAE VLSLRQLNLAGVRMTPVKTCVVAWL GSGRHALDEVNLASCQLDPAGLRTLLPV FLRARKLGJQLNSLGPEACKDLRDLLLH DQCQITLRLSNNPITAAGVAVLMEGLA GNTSVTHLSLLHTGLGDEGLELLAAQLD RNRLQOELNVAYNGAGDTAAALALARAA REHPSLELLHEVQRNLNSWDRARVQRH LE/IP/SCGIWKIAGVPLLJ.GARPSCEW RARAPSKPLRRCPNSSHPEPASVM*PA*T NLSIPWCCVASSILRRCGSQSL*PS/HPA AVSMETYHVITLPTQRGEQEVLSL ELIKWV*SAPSQP*WSTSGLALPQEAWY PVRSHP*CPLRSQSPDLTGYSYGSFGHL TWEWSWKAPRNCAV
6873	14924	A	7571	2	394	

6874	14925	A	7572	1776	3257	TNLISIPWCCVASSLLRRCGSQSL*PSSPL PSPWRPTTSL*HCHHQHREVKNKWSSPOL RN*SRKMP*SAPSOP*WSTSGLALPOQEAW YR/REKPPMMMPQAOPAIPRPNRLFLRQLR ASH/CGK/WSWKAAPRNCAV*LNSTTPCS RSGPSPRGLDPRWSGQKTWHLLGSQA* ATTCPGLMEL*/ELENPDACGRRVQTVV YGTVGTYGKSTLVRKMVLWDWCYGRPLMA AAGSHLLFVLHGLEHLLNLDFLRLAGTGLC SDPEEPQEPAAIJVNVLRKYMLPQASILV TRTPSAJGPSPSKYVGRYGEICGFSJTNL QKLFLQFLRNQPYCGYAVGGSGVSATP AQRDHLVQMLSRNLEGHHQIAAACCLPS YCWLVCATLHFLLHAPTPAQQTLSIYTS FLRLNFSGETLDSIDPSNLSLMAART MGKLAYEGVSSSRKTYFSEEDVCGCLGG WASGRRRPSWLHIFRSGW
6875	14926	A	7573	201	1436	PCDPREYP**ATSPTRRSWPWSLISHPRPG S/PLALSOLNFNPDCAGR&RVQTVLYGT VGTGKSTLVRKMVLWDWCYGRPLAFFELL PFSCEDVSSVGRPA-SMCQLVAQRYTPL KEVLPLMAAAGSHLLFVLHGLEHLLNLD RLAGTGLCSDPDEEPQEPAAIJVNVLRKYM LPQASILVTTRPSAIGRPSKYVGRYGEIC GFSDTNLQKLFLQFLRNQPYCGYAVGG SRVATPAQRDHLYQMLSRNLEGHHQIA AACCLPSYCWLVCATLHFLHAPTPAQQT LSIYTSFLRLNFSGETLDSIDPSNLSLMA AYAARTMGLKLAYPEGVSSRKTYFSEEDV COCLEAGIRTEEEFQLLHIFRDRDALRFL APCVPGRAGTFVFRARHAGIPRCPLH CAGFAQQDDPAKGQQGSG
6876	14927	A	7574	1	376	PFLPYMKINSR*SKDNIVNFKSGSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSPL*KKNTIPKKWWKDMDRPRA
6877	14928	A	7575	288	468	KAEAGGWLEPRSSRPAWRREAGAGQSP GGGGRGCSEL*LCHCAPAWTTE*DLSK KKKQK
6878	14929	A	7576	1	378	YRKPTADNUJINGERLDAFFPLRPGRTRQG/T PFLILLFNIVPEVLLVRAIKQDQEJETIIIV*I'R KEEGKLSSLCTDDMFYVENVKEFIKILLE QISSQVAEYKINIQKSVVFLYTWNNEQSK YEIKIHSRA
6879	14930	A	7577	840	1093	YKHNKLV*SGRR*LLSQQEE/SIFFTLVI TTCFWER*NRRLS01*RMIGARHFPQE VIPAPWEAKAGGSLEIRSSRPAWPTW
6880	14931	A	7578	254	701	KTGKEGPVRWLMMPVIALPWEAKAGGS EVRSRRPAWPT*NPISI/KNSKNKISLA WWCTPVPLATEEAET*ESLEPGRGRGCSE PRSCHTSTPAWVIGAPSQKKKKKEKQARR SWLAGHSGLHLHYASYAGRCGRVGGLE PRNSRAAWAT
6881	14932	A	7579	12	154	CLCMSTCMCACVCVSVCMHICVCDCVC /CVCCVACACAYI'LRCVCLVCFVLCVCFV SVIVCVCMCVCVIRYLAPPHHKSLLK
6882	14933	A	758	381	1335	DMGYDVTRVQGDVD*DILPICSGVLEE PVQAPHCEHAFCNACITQWFQFSQQCTCPV DRSVVTVAHLRPVPRIMRNLLSKLQIA CDNAVFQCSAVVRLLDNMSHLSDCEHN PKRPTVTCBQGCCGLEMPKDELPNHNCIKH LRSVQQQOTRIAELEKTSAEHKHOLAE QKRDIQLLKAYMRAISVNPNLQNLEIETI EYNEILEWVNSLQPARVTRWGGMISTPD AVLQAVIKRSLVESGCCPASIVNELIENAH ERSWPQGLATLETQRMNRRYYENYVAK RIPGKQAVVVMACENQHMGDDMVQEP

					GLVMIFAHGVVEI
6883	14934	A	7580	139	350 AIMAPNFFS*VKT*SQEDGQTPNRIKLLK STSRRHIIIAEN*!LAK*NILKAVREKWLT CRRTVISMTCMDF
6884	14935	A	7581	17	245 GG*GCSCSEL*SCHCSPAWVTSKTLTQK KNPQF*QVWN*!PCCLIDFSEFGLFLPKS YCQCKVTLQCSKSSL
6885	14936	C	7582	82	300 MLGLIFEGLQINQLVETGLKRWLRLRNSF LKRFCYLLKSLSSRSRITTTTAFVCDFGR WIMQIPGSVLPFPQCW*
6886	14937	A	7583	1	772 KENLITEPRIOPISKDDFRRYRGAIARKRI RLGRKYVISHKEEVPLCIHWIDISKQASLS DSNVEALKLAARKGEWEVISTVEKIKIY TLEEHDVLSVWVEKHV/VEVQHI*LIRLL SDFTKRLWLDPHFVSL*SHRLG*VKDDQ LY*HTCPILNDDPKDLVVLRIHEGKPLK DNTYHS/VAKVSILPSVPPSPQYIRSEII CAGFLIHAI*QQFMHSYLTJLICILLGILPY FOWEILGGLGPKSIGRKQQPLVYSS
6887	14938	A	7584	3	307 RFTEHHLRLTGEKPYECKECGKRLSSNT ALTQHQJRHTGENFECKE*KGAFNQKQT LHQHQRVHTGEKPYECKASGK/AFSWCG RFILHQILHTQKTPVQA
6888	14939	A	7585	1	374 GTVPTAATQASWITPPIDGPTTQEKLSS*A NTAPGTEGEQQVHGEEKEDPAVPSPAPP* YEESTSGERKAWAFFPAPTGEFPHNW AYVDPNNSNSRYNDNGVPTGDHEL*TTF WDDQKVRRVFR
6889	14940	A	7586	1	512
6890	14941	A	7587	1	399 FFFNYIJTRYNKHYRYYKMSKKRCHKIF QMIDMLNAASCAALGRHSRWVLGAAH PTPP/GSAQAPAPWSHAMGARTLPPRPR SFHGHSATPKVSPSAAMPTEAQRP/LPGC GPGSDFAGHPOC*PPQVQPTIS
6891	14942	A	7588	49	430 KWVKWVDCVGDMLECASIGRSEAFKTSS FQFSLATSEVCGHSSATPKVSPSAAMPT AQ/QTPPGCGPGSALLGIRSADHPKCRSP LRVPPPRSTSKVLAPPFLASSDHLEHTCS SQVRPLPAAVRGAST
6892	14943	A	7589	467	1518 LANCRCPVPGHWMOVMRELWMWNV EEEHEVVGICHTWGGOHCQCPAKSLPGPH PGGVSAPOQSASQLMVKLLVVWQKSVHKL RKVSATSSIAYVPCPGQSSGGAEASPAGP GLAGWSHLCGAALAEVQAAQPVSQAAVS DASLGPEWSSQECRGLTSQHGRGDG R*RGSGRQGDP*SPSPGIPASSAAL*VGL VLVKWRPVIIKAYDPVPEASPLSANFRN PGPAEAPGPMGKTKGRGSAGGA/GAGS AGLAPPPRSSQGAAGIGQ*PGLPEEAVHP CKGSCPASLSAGTRPAPPHCPLGP QCPGSHGVTPGCRSLG*AGGVG*APRT QREWRPRAAQEAFAFNMSII
6893	14944	A	759	1	1236
6894	14945	A	7590	296	423 MVI*KL/PYKKSQGLGTFTDEFYQILKEE LISILLTLEFQKIQKE*VTYKKSQGLFTTD EFYQILKEELISILLTLEFQKIQKE
6895	14946	A	7591	3	167 VYT1KILRADRDMLTGYPCCSTGLTADD ***DNTLEV//ALRRGPFYLEGLDLSPK

6896	14947	A	7592	19	406	PLQELGGOSLSLHYVGGRAFPAPGHP PVQSLQRCPVCPTQQLTPFWCPAL/RQ Q*GHROGTGIPVPTGPPLKGOWQQGPP QKEWQMMPKAFGHHPGLCQSLGAPR RNWRDTYQAGPROCGALM
6897	14948	A	7593	2	3532	
6898	14949	A	7594	3	300	KGPWKQENVEAEASMVIAVPPEFGGAIII GOESITYHNGDKYLIAIAPPIKQSTIVCHN NRVDP*WPQDTLLGDMEGRFLTALQKNP TEKKIPOAQLQAN
6899	14950	B	7595	1	819	MARGSGAGLVLGRLHRHDWLQLGSOSHAP GMLGQVALAGRTELAVPSLDTPGGGGEQ RASDLSRTLSSSHESDHTVRAAHSPLAEP ALTTRSLPCLQNVAHVRLYIKCQLDFGGD SIAVGTWYPMWVWIPVVWIPVVWIPVV WMEHTVLIHLPGGHVGSHLSAPVNN VCVNVAEPPALCGTAKSKPPLTPPPIRS KAKFLGGSVCLGRHNKLQSRTWLKQQT FISHDPGWKSNIKLTRPAQDQLLMSVCM NCNTHQSEDMDVISHLIKRILKPK*
6900	14951	A	7596	2	3235	SPASAGRSAAHGOSASPGSGPHPSWCIV GRSSCWSSPS*ASSGSGTPPTOPGRCSL G*MRRRPPAGQAFAQLQKGKWRFFGG W*PWEAGGFQGEW*GATDSRITASNLQ GPPHLQLHLHNPAROPPAFNVRVKQAP WRPQARAGAPGKPDQDAHQRVLQNG HLGAQTOEEVAVTLGWPVVPLVVGRLR LCGTAPCAGSARSRGELADGGDHSE PPDGIPLDG/EQSGSGMSGALPGSSFLCP RRCR
6901	14952	A	7597	2	1065	HMLCVENSKDSTKKNLDDLINEFKVA GYRINIQOKSMAILFTNNNLAESKRQCPF /TDNIKHLRIILTKMKVHQYSLHTENH KTMKYIEEDTNK*NIDPC'S*GRINVK VSILPKAYIRFNAIPKISSAFFTEIEIIQF LWIHKRSOITKAIRRKKNPGIIIPNLNL YKTRVIKTIQYWHKRYTQ/WK*PEINPN MYG**IFDIKSTKTTK/WEKGSFLNK/WC WDFTCRMKLGIPYITPYTKINPKWKD LNVRT*SHKSRKENIRGKAPWTLGFGQC FLGYHTKTSGYKSNNK**MLYQSKKLL HRTKTINKMRQCTDKEKIFANHSIGKV LIFRI*EELIQLNS
6902	14953	A	7598	3	333	TLPPEIQAYTQEWLGSPEEATALAERL QOESAGPGLQMNNGGLVGLWAVWCLPP/SS RPPAEPSTGAQSVWGG*EGPOGGCKVM VTGGSLVVLAWTAESEISHTCVRIVS
6903	14954	A	7599	252	684	IILFRQLFLEVLMSSLQSPCLVVAHSASRW TAPVTADAPSRLWRALALWLWLAHGQQP GTGWPVLSLRRRSASRLAASPSENPPSR NIH*SPQRPVCSRGPSGPATCPGLPRTSP GATRPGPVSPLSPRSIGIAAPGLAPAST PP
6904	14955	A	76	189	442	KTMRSIRSFAANDRHVMVKHSTIYPSP ELEAVQNVMVSTVECALKHVSVDWLDETN KGTKTEGETEVKKDEAGENYSKDING*R TL
6905	14956	A	760	55	792	GRAGACSLIDTAMSEIEESSDVRILMOYL KENSILHRALATLQEETTWSLNTWDISIESF VAELEKSGHWDTVLQAIQSLKLPLDKTLL LYEQQVVELIELR/ENLGAARSLFETRDP MIKLKQTQPERYIHLNLLLARSYFDPRE AYPDGSSKEKRRAAIAQALAGEVSVVPP SRIMALLGQALKWQHQGLLPPGMTID LFRGKAAV/KDVEEEEKFPTQLSRHFKFGQ KSHVECAPRAEFVQRRSN

6906	14957	A	7600	156	888	FRSSVSPGSGPPFSVSVTGSGPCS**HSGR PGVLVVKLPQQS*ASLPPAFIGGSVDVAA GRGLSSAADCFSLTGLTLATPVFLTSNLKLLQESVPK*LNSASS/GPVERP*LOMH RLCGGPERSLAVGTRPGARNWLASF/VGGQQLLGLQHPLQKIPPSRNH*SPQRPG VCKWAGRRKTKPRVLDLQALETCPLGLP RTSPGATRPGPVSPLSPRSgiaAAPGLA PASTPPLSPGPPIPPLP
6907	14958	A	7601	231	457	QSSLSLPLGLGEDTKSLRANTSNELEJIS QATIWEEGGPTTSSLWRFPNPGSPTNRN PKLMPAVQOPPHPSG*PSVTWHLHSWR WSP*GQSKASLPLPLPWNSTCYPQTNEKE TKTOSALSTPSTNCNQPKERRPVCLPWV PPTCSSTDREPPAWAHSTDPPSCDGTAK VPSSAGSKLGRKHHPRAAVGSLGASSHN LKAMGEEETLUTALRGSKVTTV/SETTR PRKKLSTDQYT*APPTGHSHPKADTPKIRC CVSPFRCYEEIPETG*LIKERGLIDSQFH MAGEPGNLQPWRKAKAKEQAPSSOSGR TE*VPAEMLDTYKTIRSHETHLSLSREQH GENHPYDPTSTWSH*HVGIMGITIQGEI WVGTOSQTISLTYPSP*NTQTEVSNK*RP PYGRREDQQLPPCGGLGSTSLVPQQTGTPS SCQQCSRPIPVAEHQ
6908	14959	A	7602	2	289	LACYSPPFGGP/PSPPPRAGGSNPPGPG LTTPPKK/AKLL/RPSSPPLPFFLGRVG PGDSFYPGGE GFP*PRVPT*NWGPFPPE GIKKKL
6909	14960	A	7603	3	805	DRVSLLLPRLCNGAISPHCNFRPGSSH SLASASRVAIGITGVCHHA*LFVFLVEME FHAGQAGLELLTSGDPSPWPSPVK/VRY TRIHGATATWPYIFKNFYPTRPS*NSLSK RTS*IQMPAL*MERLQFVCPSS/LAEDLT K F*EKQDSKFTSQNRNEN*AFSRSS*GMLEK D*KWTTSDIV*VFVLFKSHVEMILSPVLE VGSSRRFLHGGRSLMNGWVLSLW**V SSYSSICESWF*KESSVFLTFVLLPFWPC DMPAPPRLPP
6910	14961	A	7604	75	484	EIQVLVSLKTSLNKFKKIEIISSILSDHSGI KLEINSKGKLQNHNANTWKLNNLNLNBH WVKNKIKMEIKTF/FELNDNNNGTAYQNL WDTAKAVLRGKFTALNAYIKKYERAQT DNLSRSHLKELEKQQT/KPKSSRRKKK
6911	14962	A	7605	3	1105	
6912	14963	A	7606	802	1204	VLEVLTAVRQEKEIKGIGQIKEEVKLLL FADDMMIYMLENPKDOSKLLGLMNEPSR VSGYKINVHKSVALLYTNSDQAENQIKN SAPFTVVS/KKK*LND*IKYLGHLTKEVK DLKYKENYKTLKESIDDIK
6913	14964	A	7607	3	419	RVECVVGLEYDRSAAASNTITQVVVTIH QALSHEQ/SAAATSFNSKHESFSRHLILL GHKLGLNHNVGIM/PN//FSNPNRITLEI INTSKTEKSTNLWLNNTLNSQSQRREE IPREKENT*NEHENAAAQOHLQDAAKAA
6914	14965	A	7608	1	341	RMGTCVNPRSLKGFPGRPGKKKPQSSP IKS/SPKMALMGNGNPGGAPPFFRLFFNF RFGPKKSSSPAPIFFFLKKGL*INFGP/REP GFNQKPKQFFPSAPGFEPWNPPQGPKP
6915	14966	A	7609	1	409	
6916	14967	A	761	85	379	KPKTKTKRTGPVRQNRWGRSLSPGRA PAEGPOGGSTESPPLVGRCLLGLREGV VPPAAYGRLFRDYMSNIQGKLEKQRQ* GLPSLTGAELJKH

6917	14968	A	7610	3	644	GIDQRDLISNNNEQLPMLG/ERPGAPESQRPAQPSDTRPLPSPKLAPSPMCSSLKG/KAITMPMLLPSQSPKTPKP/VSKMRMATTPLIMQALPM/DALPGPMQNATKY/GNMTEDHVMHILL/TVLTKC/QEEVSHIPAVHPGSFRF/KCDENGNYLPLQCYGS/TGWCWCVFPNGTEVPNTK/SRGHHINCSAPSPSPISHLYLIP^D/GAWLFRHPGQDKPSRNSR
6918	14969	A	7611	1	1032	MHRRRRSRSRCREDDQPKVPMDDQRDLSINNEQPLMLGRGPAGAESPCKSRGALYTGFSLVTLLLAGQATTAYFLYQQQGRDLKLTVTSQNLQLENLRMKLQPASQPKVPSKMRMATPLMQALPMQALPGMQLPQGMQNATKYGNNMTEDHVMHLLQNAJPLKVVYPPLKGSFPENLRHLKNTMEDIWVKVFESWMHHWLLFEMSQPLPCSKSPLDAPPKVLTKCQEEVSHIPAVHPGSFR/GPKCGRGTGNYLAIPVAYWGASATCWCLCPNG/TREVPNTRSRGHHN/CSESILGTWKDPSPFLGLGVLTQDGLGPVPIVRASRGGLQHPASPTQLQLSCSLOPPAPPSPSTL
6919	14970	A	7612	59	321	LSGSPVLTATSVQVPLSRGKGTQGPDPAL/SALAPPPTSISPSPPSRSRSLRRFRAPSQCP/WGCPGSLQQAPCPPLHWQDYRPGVRVRLPG
6920	14971	A	7613	1	464	DEEDGENAHPYRNSDPVIGTHTEKVSLKASDSMDSLYSQSSSSGITSQSDGTSNRD SFRLDDDGPGYSPGVYCDQATLHTDFTPSPYDTDSLK1*KGDIIDIICKTPMRRMWTVGMVNNKVGNFQFIVYDVVISDEEAAPMTIKANRRIISLSKTLQ
6921	14972	A	7614	1	2119	LSFLDLNENDFLSNNIHTYQGKTLQGTSYQAIKSGSDPVESMGTLKRLQLKLVWTK KARVQNLDEVKPTLNLQDEDDTLISCLKLTKSREKKVNVSVSTRKEEMEIRLDLTL SASLGRSSTLNNCNLEDKLAWYEGEAYMVWHHWFPEPNPLWTCLDFQIAQVQGPW DHCCSIRTRLKSSCSMDLILHSWVTL CRQESSNTCTWLREKRGRDGLFCILFWCF IDRKTPTFKFSDDQALEILKIGRKQVKVHSLGVVRIQNAQEAKAQCFCREGETSTKTEYE SVKFKYPKQRSSSFNFDRFRNNSLSKPD DSTEAHEDGPTNGSGEBSKTSNKEAAVW GKKMRAISWTMRRKWKGGYVKA SEE KDEEDGENAHPYRNSDPVIGTHTEKVSL KASDSMDSLYSQSSSSGITSQSDGTSNR DSFRLDDDGPGYSPGPFCGRARVHTDFTPS PYDTDSLK1KVIIGEOLCLTWKGDIIIC KTPGMWTGMLNNCVCGNFKFIYDVDS EEEAAPKKIKANRRSNSKKSCTLQEFLE RIHLQEYTSTLLNNGVETLEDLKDIKESH LIELNIEPNPDRRLLSAAENPLEEIIQE QENEPEPLSLSSDISLNKSQLDDCPRDSSG CYISSGNSNDNGEDELESENLSDMILLTDP LQLSPQLPQRGAGNMNRRKTGFSLCHGK LNKEQRKDKKRLJQGWVAEELGPSAAF G
6922	14973	A	7615	3	452	
6923	14974	A	7616	1	475	PDSGGPHRLRENPPMVAWSCKTINVKG PPGKGKVGAHAIAQYGSEALGRJUFLSPT TKTYFPHFDLASHGSAQV*GATGKKVAD ALTNAVAHVDDMPNVAVRP*SDLHAKH LRVDPVNFKLLSHCCLG*FWPAJLPSPS FPTCGGTPSLEQSSWASC
6924	14975	A	7617	26	461	WESCGPHQRTG+AGSSRCRGWRRRAAGP GCHQPRAGVPGPGRTRCRGSPAAADAGR CWLGGPPPPGCGPRCLR*CAGHPAGSA RVWSVVAAGASTGLGRLWGRRWSPSCH RCQSPGCQAGRRGTAIRLSWPLSRSTCSR

					IPAARVYPR
6925	14976	A	7618	3	419 LLDPGDKSCGPTSKDCRRRJRCQSYVEA LPPFALPHTRGSGRKEARGEQSGAGA PADPDKLEAAAVAGEDVQQAPGCHQPR AGVPGRTCRAGRSPATRGTRDGTAVQR AGPATVPIPPGPWGPTCRRCRTLLARR S
6926	14977	A	7619	2	227 AGVFCDAGLTPTSSSGQTAQRRAELCP QPAALRRRSSEPFVSLLDISGEYLLGTFY YCVENLRDGPVCVADAV
6927	14978	A	762	209	393 WAVYCTSFMLS*CYKI*CKPALSLLGIT TEVKTYVVTNRCEMSTSALLIVAKN*K HSKC
6928	14979	A	7620	11	394 SEFDWVADLDVQKYEQPS/HHEALTSMG STEARMVDMGSSILMGIFSNADLKQLDE WKVNLYNTLDSSITDKSEIFVHGDLKWD IPQVMISRSTTPDLIKIGMKLQEFTQPDF TSTRALSTWGPVPYL
6929	14980	A	7621	3	185 FFFFFER/CPFLAQARVLWCLHSSPOPQS PWVSSNPAS/ASQAAGTAGMCHRAWLL KTEVGLD
6930	14981	A	7622	1543	1744 FVKSKALAFFLSFFFFFLKQSLSVTQAG VQWPVDSLQPLPPRFKRFSCLSLSPSWD YRCVPQC PAN
6931	14982	A	7623	1	259 SENQEQQEEVITVRVYDPRVQNEGWSNSV VDYVYKIFLHTNSKAFTAKTSCVRRRYREF VWLRKQLQRYAGLVPVSELPGMPTILYGY LY
6932	14983	A	7624	3	265 CHPRLACSGMILAYCQSRLPGSKRFP CLSPLSSWDYKQPCHHTRIILVFLVETGF IIHVGTQLE/MLRNSGDPTTLASQKCWDYKA
6933	14984	A	7625	2	375 RAALTPSTYKGAPS PK/GAPHSTVGVTSA SPEKEPTTVAVTPSPPEKGPATPAPKGT TSPPVTPSSLKDSDPTSASPVTCKMGATVP QASKGLPAKKGPTALKEVLVAPAPESTPI ITAPTRKGPKQ
6934	14985	A	7626	2	425 IFFPKRGGFSKKKGVVFNPNPSSSRFFAR PPGVGPPPVQVSSSSSSPEFYFASSSSYSS SSNFPS/HSSSSSSSSSPRQOHPHLYPHC RLGWAERAW/PGBTPLYHYKTQKKQGT SASPGRGTTCHTPQSPLPLPGHHRCPW
6935	14986	A	7627	3	253
6936	14987	A	7628	48	557 AGLGKARLAPGTLYHVKTORQKQGTSA SPRGRTVTQRGHCYQNAPGRTLQPPPC GQQTSGH*GPGWVYESQRLWKTPTQRS* Q*FLHPPPR/HCHTPACAGAASASPCVGRY CPRCS CAPARSASLAALTRETAPLLSPS WAPGDPTILEGWPGNGSPLPPRGM*PHL YPHCRLGWAKRAWPRGHHCITIKPRGN KEQVQVRQEGPLSRKEVTVKTLLVVF SHELAASKPAAEGLDGLMSLRGYGKLH KDLNDNFCILLALPHSCLRSFCITMCR ALIPEMLMCSCSLISGRSDSGNSSSSFS FLGSRRPHVGGLAREWFPTPTEDVTGI EDGL

6937	14988	B	7629	122	1028	MENGOSTAAKGLGPLTPEQQEALQKA KKYAMEQSJKSVLKVQTIAHQQQQLTNL QMAAVTMGFGDPLSPLQSMAAQRQGA LAIMCRVYVGSIYELGEDTIRQAFAPPF PIKSIDMSWDSVTMKHGFCAFVEYEVPE AAQLAQEQMNSVMLGGRNKIVGRPSNI GOAQPIDIQLAEEARAFNRNIVVASVHQD LSDDDIKSVEAPGKIKSCTLARDPTTGK HKGYGFIYEKAQSSQDAVSSMNLFDLG GQYLRVKGAVTPPMPLITPATPGGLPPA AAVAAAATAKITAQEAVAGAVALX*
6938	14989	A	763	348	638	VQGKPVWMGRAVCPAPGVRLEREPVC GTPCLCLHPARMTPAWGSIHCLPSHGC PCLPVNAPSWLGPSPWARALLQ*WVV LGAEGLHPTLRTTVG
6939	14990	A	7630	3	407	KSMTEAEQQQLDDHFLFDKPVSPLLAL SGMARDWPDARGI/WIETLFKSKDYEPM WNPHLGYIILTCPSNLTGRLAGVHIIKHE KFSEVLKRRLRQKRGTTGGVDTAAVGGV FDVSNADRLGPSEVELVQMVVDGVN
6940	14991	A	7631	1	170	
6941	14992	A	7632	1	411	SYEVFKELFDPPISDRRHGCGYKPTDKHKTD LNPNLKGDDLDPNYVLLSRVRTGRSIK GYTLPPHCSRGERRRAVEKLSVEALNSLT GEFKGKYYPPLKSMTEKEQQQLDDHFLFL DKPVSPLLASGMARDWPDARGI
6942	14993	A	7633	2	1250	LPTDGAPPPPGRPPAAAMPFSNSHNAL KLRFPAEDEFPLSAHNHNMAVKVLTPEL YAELRAKSTPSGFTLDDVIQTVGDNPNGH PYIMTVGCVADEESEYEFKDLDFPINED RDGGYKPSDEHTKTDLPDNLQGGDDLD PNYVLLSRVRTGRSIRGFCFLPPHCSERGE GRAIEKLAVEALSLADGDLAGRYYAL KSMTEAEQQQLDDHFLFDKPVSPLLIG LGHGRNNWPDARGIVHNDNTFLVWV NEADHLRVISMOQKGGNNMKEVFTRCF GLTQIETLFLKSXDVEMWNPFWHATSL PCHCNLGTGLRAGLHNLKPNLQGQMR KFSEVLKPAAELSRSRPPPGVEHGLR WAGVFDFVFTQTLNRPGPQSVELVQMV VDGVKULLIEMEQRLERQQAIDDLHAW PKK
6943	14994	A	7634	1	175	EOLPVFVTFSMPATT/EGRGRGFSLSVESA CSNYATTVQVKVVNRMHISPRALGTLH HN
6944	14995	A	7635	1	83	
6945	14996	A	7636	61	2028	
6946	14997	A	7638	517	1038	NKRIJNCMMISSRRVISLSPIVLLQIFDCP RLKFSIEPQRJLTALLPPDPVINHVISEV APACFSDQGMISLPSLPLPLLPSLPP CWICPSPGALGPVWGHGRHGHEGLDPPGSV DPSDQKKTACYDIDVEVEEPLKGQMSFF LJSTANQEISALDSKVGPKPRAGVGH
6947	14998	A	7639	154	1594	LSRCRTLPSMTPLQHPPVVPPGMP GARMPHQGRPWAPRAPRTWAAPCPDPA WPPRDGARPQASSAPARQSQAQSOGQP EPTAPARSRSAKRKRMADKIPORIREL PESQAYMDLLAERKLLDQTIMRKGVDIQ EALKRPMKQKRKLRLYISNFNPNAKSDA EDSDGSIASWEI.RVEGKLLDDPSKQRK FSSFFKSLVIEBKDLYGPDNHIVEWHR TPTQETDGPQVK\RPGLSVRCVILLM LDYQPQFQKLDPLRARIILGLHTQSRSAAV QALWQYVKTNRLLQDSDHKEYTMGDK YFPQNFDCP\RLKFT*IPQRVTAVLIMP DPIVNHVISVDPSDQKK\NACYDIDVEV BEPIK/GQGMSSFLSTA\NNQEQEISALDS KIHETIESIN\QLKIQVRDP\MLSFLLRPHKL CARTWLRSQEFGTSR*LTDVAGNPEER

					R A I E F Y H Q P W S Q E A V S R Y F Y C K I Q A S A G K E A W
6948	14999	A	764	746	1280 I SHMELQFGAI FAEI LFRGPFFHHLHNINFT WASCCPHASQPGQRQGSWNEYHSFRE FNQEKEKIWRAGSESAPLPLAGAAAACPW RGGA SNPICVTGASAAGGRAGGGSGEET GSAGFAACST*EYEAFSGFSSSPGN SV •TFTS TTYTASPTPSPPSVSPSPCPYY S SSSL
6949	15000	A	7640	256	426 HPICPQTAKFLPRMLELQNGHHIVCLNSV LALSAIPGAIDYCTSEAADFGFMESLT
6950	15001	A	7641	1	985 RIARPGEFRLPLPGSAA RMAWKRLGALV MPLQMIYLVKAAVGLVLPALKRLDLS RENVLIJTGGRGIGRQLAREFAERGARKI VLWGRTEKCLKE TEEIRQMGT ECHYF ICDVGNRD E VYQTAKAAREKVGDITILV KNAAVV/HMGKSLMD/SDDDAFLKAQ/ NINTLQ/QFWNHQGPFGSKLCWKQ QNGP H/VCLQLPLLGIVLAI/LPGAIDY/CTCSKA SAFAFMESLDPG/VLAGTCPGVSATTVL ALSTTSEMPFQGH*EPRFVNP LPPLK PET VARK/TQEAVQLNQALLLPWTMH AL VILKSILPQA ALEEIH KILKETYNLE
6951	15002	A	7642	1	376 KQAA SNQLDSLMGLG/D SHPV EERGILC EPCGVQLFYDV L VHYQD QWD L DLRPGTAF FRT EGIPRHLHSQ A QETWPEL/PLRRVR QENLSSGYLD DLT LETANGPTFC PARPF VNMTAT YNQLRS
6952	15003	A	7643	1	2753 MKEF SSTA AQGNTEVHTGTLQH ERH JHI GDFCPQEME KMDIH DFE FQWKEDERNSHE AMPT EIKQLTG STNRHDQ R HAGNKP KPD QLGSSFHSHLPELHM F QT E GNGN QVEK SINASL VST SQ RISCRP KTH ISK NY GN NF LNSSL T QK QEVH MREK SFQCN ESGK AF NYSSVLRKHQIHLGAKQYKCDVCVGKVF NQKRYLACHRC HTGKPKYKCN DC GK FSQELT L TCHH RLHTGE KYK CSEC GKT FS
6953	15004	A	7644	1	149 DSFGASRFRLRIHA E TYFTL RAYFAESRCI EAL DELASL QVTM HQA QKHT
6954	15005	A	7645	81	331 KGARFLLLILYLLD A FNL DLFFLEYPS YFLLCFC SLLLFFFC HCFCSFLY FFV CRPSS LFSS SILLI LF FV RFL L PCFL
6955	15006	A	7646	701	1114 ATRHISMLSCIYT YTIYKIIHTH HVFIYI YT YT YI HTH YI YT YI CHTH H YI YI YI HTH FFF FFFFETESRSV T QAGV QW IDL GLSL Q AASWGHA/DS PASTS Q AAGTTGAHHIA Q/LFFFVFLVETGPHRASQDS
6956	15007	A	7647	1	207 RSVFRERGKLSAG/SV ERV L YRV RR FDR ERI L KMARKA VETH VL RSPH LVSDY RDS IPSES LL ALPC
6957	15008	C	7648	244	432
6958	15009	A	7649	898	1144 IFQ L LMEG PANI UGNTG SSNT GR SNT GP SNQSSY LI SFLFL FC FFETE SR SGR PG L GV QWA WIS GSL Q AL PG GST PFS CLS

6959	15010A	765	I	493	KGPVSKERPSGMNRNSALRVNVRPLRPC PQEBOGLPLQSCVPPLGLCRVPSRGKQPK HLLPTG*IAGLPNLHVIDFPLKLQLSFLGL* GVPQGPPPLGRGPQSQGSLVTPAMGG GPRKGLPDRPCE*GACTLGPWAAVPVPLS SKGPFPTVGPRLSLSDFSR
6960	15011A	7650	I	476	ATRELVTSSGLRRKKTGLWARPREKPTA WHLASLSPRDELVRNPQEPQPGPREEGS LGHVARTPAPGGGQRHLSRAHHSRP RRFKATLWLSEEHPLSLGDQVTPIDLM AINSAHFAKLRLDPTTLRLPPGFVKEIPL FHVLNARIHLSGNLCGC
6961	15012A	7651	I	1071	
6962	15013A	7652	2	240	SCSIGSFQFG/YYPGVINAPETIKKFINK/S LTAKANAPPSEVLLTNLWSLSVAFSRSG YESASLPSPGLFVNURFGQVLT
6963	15014A	7653	2	391	QTGRGMWCSDLVLFLLILPATPRKQSEPK TTDAAAPGTADTAQPGTMDTAVPRKAE TAVPGKRNTAVPGTADPASP GTADTAEP MRITTPTVLAWPSLTQSTKAPSPRLLP APSPGSCSATSTCSRSP
6964	15015A	7654	I	200	
6965	15016A	7655	3	416	CLFPVQLLLDHGADDPNQRDGLGNTPLHL AACTNHVFVITTLRLRGSGFFPSLSSFS SPECPSPQLVPAGARVDALDRAGRPTLH LAESKLNLLEGHAOCLEAVRLEEKHHIH MLKEHLELLGRHYOLINAWMTLD
6966	15017A	7656	I	395	KVQSRCCSKENILRASHSAVIDTKVARR PRMASFALTSMDFKAFTVLEMTPVLGTE IIINYRYGMARGLVQYYVSDDIVFSPFLSL LYEFIRSFHFSLFIFIYLSRSFFKLRESF FCCSIFLSSTFALS
6967	15018A	7657	210	441	LNPILYSPGRDHRVQNFHLPRLCIQKLF KISKCFIYELPAHKKLVLQLEPLTDDE PDFVRQVTEMSYFISHSM
6968	15019A	7658	8	399	RVGVAQPWWLRLVSLGGRDFHTPSIV TKVAERGKAEDADLRPGDIIVAINGESA GMLHAEAQSKIROSPSPSLRQLQDLRSQAT SPQQTNGDSSLLEVLATRFOGSVRITYTES QSSLRSYSSPSTSLSRA
6969	15020A	7659	2	260	WEPPWPGPVLGLPPLPLPPSPSSPLPIP PRGCSLGASSA/WTAVSSPKEPVRPQ PPPGEGSNEHRRKWHPPFSVMLKSCY
6970	15021C	766	82	201	MKSXHFJNLSRQJKNYNLJYTFIRSDF KTAIFL SILS*
6971	15022A	7660	2	442	PRVRVYYFRQGHEAYVEMARKNKIYSI NPKKQPWHKMLREQELMKIVGKYEV GLPTLCCLKLAFLDPDTGKLITGGFTMK YHDMPDVDFLVLRQQFDAAKYRRWNI GKGE/CSDRFRSVIDDAWFWFTIESQEPL QLEYPDLSLQ
6972	15023A	7661	965	1232	TGVQWPDLGLSQPLPPEFKQFSCSLLLR GWDCCRPLPQLADFCIFCSRQDGYYCYVG QAGLKLLTSN/DL PASASOSQAGITGVSLC TQPKSS
6973	15024B	7662	III	374	MVAAATGSEILLWALQAEAGGGSEIGDSG NWIEIAYGTSLLGGVRVIVQHPETVGSGP QLLQFTVHRSPTKIMLWEKHLISVCA DNHH*
6974	15025A	7663	387	545	

6975	15026	B	7664	181	4716	MGRPAPAVPRPARPATPPAWTAALPAG RPRGDGPGRFLCPYLICHNGGVCKPDR CLCPDPFAGKFCQLHSSGARPPAFAIPGL TRSYTMTPLANHRDDEHGVSMSVSHV EHPOEASVVVHQVERVSGPWEADAEA VARAAARAEAAAAYTVLAQSAPRED GYSIASGFGYCFRELRGGECASPLPGLR TQEVCRRGAGLAWGVHDCQCSERLGN SERVSAPDGPCPTGERVNGBEDVDEC ATGRCQ
6976	15027	A	7665	209	1288	EENKERRDRDITERKEGEARTSKTSQKRET KETTGGKTKOKRKKEKTTDKKTKRKKR TSKTEENKKRKQPKEDRDERDESTKRKE GERERRGNARRRKGGHEHSKKRGERRN NSKGEGEEEEEGRKTKAKTRTRQANTT DSNEKEGRKGKGQTRRPAETRRRR KRKRQRKAGETTPGETGRWCASVRSDV GSITTAFTVLECEGSRRLLGSWRPRYYLLN CQANGSLAMWDLTTAAMDGFQOAPAGG LTOEQELMBQLEHCELAPP/R/CASSSLNG AVSPSPSPRSLSI/NASTQASNNTSFVWPT VGSPKPPARLKARRRGWGEALWKAAR NWCCVGQGTSDGHPIQAPWPSKRSHSP HTQE
6977	15028	A	7666	3	1703	GRRRAAALGVIAAGAAGARAATAWTGP ARRASPRALHPGRVRPALRPWADRPLPY PDLRPAQRHQGRGRRSRRGPGGTRLPR LVPSEAAEPAQPSGASAARRTAQPLSDG ATRCPPTLAMHGCVAEWMRKPPLPHIQ VRFLVLEGGQEPFGMVRLVCGHHINWIA VAYTQFLVCYRLKEASGWLQVFSSPRLD WPIELALHARVHGGALGEHDKVMVA ATGSEILLWALQAEGGGSEIGVFHLGVP VEALFFVGNQLIATSHTRIGVWNAVT HWQVQEVOQPTISYDAAGSFLLLOCNNNGS IYVVDVKPFPLRMKDNDLLVSELYRD AEDGVITALSVYLTPTKSDSGNWIEIAVG TSSGGVRVIVQHPEFTVGSGPOLFOITFTV HRSPVTKIMLSEKHLSILSVCADNNHVRT WSVTRFRGMISTQPGSTPLASFKILAES ADGHGCGSAGNDIGPYGERDDQVFIQ KVVPASASQLFVLRSSTGQRVCSVRSDG SPTTAFTVLECEGSRRLLGSRPYRLLTQ ANGSLAMWDLTTAMDGLR/SPAGGLT EQLMEQLEHCELAP
6978	15029	A	7667	8	566	TLTVGNSQSGREGLAFLVSCPEGRADC SEASCCSDSLSDEARSSGSEGTPADTGDL PGHIGASAPSVSREARQTVPPPLTVRLHTQ VSSECITEDGRTVAVGDIVWGHRR*GRT CWPGASDLCSTGTL*AFWPAAACRAHWAR WSAWCEVPRGAVCSSRGW*T*AQRLLP LSVFPTTQRMALAALHEAV
6979	15030	A	7668	2	610	SPEDVDPRLRPRVRLAFLVSCLVGRADC ASESACSSDSLDEARSSGSEGTPADTGDL SPGHIGASAPSVSREARQTVPPPLTVRLHT QSSECITEDGRTVAVGDIVWGHRR*GRT WWPARVLDISL/WPEGGRRAVLARURKV SWIGSPITTSFLSISKLSPSEFFKLRFNRK KKGMYRKAITEAANARHVAPEIRELLT QFET
6980	15031	A	7669	3	392	ADAAPVTRCVTSGHSILPSIGHAAESELFH RPA/AGIILPSRRNNVLPIRGASSTRARPLE RPATPV/PAPSSAARSRRHIDPQLQSSSPT PPGPGTGSAAVAVPTPNSSPQAGRPA GAMLYHSWVSEITE
6981	15032	A	767	88	372	QGMDSKRRGVKLNDQGFMPVLGFCTY APS*PRSKALEVTKLAIJEP/GFRRIDSIGH LYTNEBQAGLAIJNMIAJDGCVKREDIFY TSELWATFY*PE

6982	15033A	7670	5	393 GFRNPPRDSHHPHSTRRRRAFLRRWEKD PGRGKGRAPEPAQQRDASPPTRRPLEGP/ PRIHLRQWERLPFPKSPWKEVFAFVSAN KACSAISGPVAPVETAAEPSPPS/PRVR RSGPRTKGARPPRNRCDD
6983	15034A	7671	2	399 ARTNTTGGRCYCFIRMNSNLIHRTQQGYN NPRLSTNLSDIOTETKLRRPYQISMCE LGSAGVTSASFADCKGAEKISSGHQRL EPATLSGIA/GFILSLLWGALNLIPGFHAI QRLLQREGDDFNFSIALF
6984	15035C	7672	151	339 MSTTPHISPPLRKGDDVDRGRXLXWRWPL RGFCATVRWCPPGAAGWCAXPVAESA FXRPAKS*
6985	15036A	7673	19	443 SVRWNSCRAEAPQWPAPAAAOPAHSPH LSLGESEGLGKLJLINSFLTDLYSPEYGP SQRKPPVQVYLIVFLIDDKLE*Y*TQST CCNFHYASIQSWOPAINYIDSKEFDYLNNA ESRVNRQCMPGNRVRQGGLYFIAPSGH
6986	15037A	7674	152	532 QARLANKRPAPV/AEGATDRTV/AQKLNG QROLQPRPPTRLI*A WVEQSJKVLIKDGG VQLLLTIVDTPRFGDAVDNSNCWQPVIN YIDKFLDYLNNAESRVNRQCMPGNRVRQ* *LYTAPSGHGPMLIN
6987	15038A	7675	1	627 GSARASAAAEEERSVNSSTMVAQQQCNLEGG YVGFBANLPNOVYRKSVKRGFETFLMVV GESGLGKSTLINSFLTDLYSPEYGP RIKTTVQEQQCGVLLIKEGGVHLLTIVD TPFGDADVNNSNCWQPVIN/DYIDSKEFE DYLNAESRVTRROMPDWNRVQCCLYFIA PSGHGLAKPLDIEFMKRLHEKVNIPLIAK ADTLTPEECQQQFK
6988	15039A	7676	2	371 VLEELERALLREARLGRARSSGGMQA ATEGLARPQAPSSAFCRPCYCKGKFRTS AERERHLHLHRPWCGLCSFGSSQEEE LHHHTCQVCGOSFTQSWEFLKGHMKRHK KASFDFHACPVCGR
6989	15040A	7677	44	983 RGSMEGSRPRAFPSGHJLAPSIPAFDGELD LQRYSNGPAVSAGSLGMGAWSSESRA GERRFPCPVCGKRFRFNSILAJHLRAHPG AQAFQCPHCGRHAAQRALLRSHLRTHQ PERPRSPAARLLLEERALLREAPTGES PKLRGHAGHPLPLMVW/PRPQAPSSAF RCPIYCKGKFRTRLERERHLHLHRPWK CGLCSFGSSQEEELLHHSLTAHGAPERPL AATSVAPPQPQWPQPPPQPEPRSPVPQPEP EPEPEREATPTPAPAAPEEEPPAPPEFRCQ VCOQSFSTQSWEFLKGHJMRRKHASFHDHA CPVGR
6990	15041A	7678	1	582 GNAGLSSLTEGVLDLFAVKAVYMGHGI DIHTVCVQNKLGLGSMFLSETGVITLLYGLQ TTDNRLLHVFVAPKHTAKMLFLSGGLELTR AVRKMRKFPDQRQWLKRCQYVSLYQE DGRYEGETLAHAVELFGRGRWSARNPS PGTSKNAEKPNMQRMQRNNLIGISTIKKKK KILMRGESGEVTDDEMATRKAKMHKECR
6991	15042A	7679	2	428 SVGSESDSSKE/GPSMTRSGPLRRSRAVP G/PEESQGNTLVIRVVIHDLQQTCKIRFN DATVWVAKQRLCLTQLSLKDVLNYGL FOPAASNGRDGKFLDEERLRLREYPOPVG GVPSLEFRYKKRKYVKQASLDEKQLAKL HTK
6992	15043A	768	177	311 WFQNPYCYYLFFLETESLSPRLERSGTWS AHCSL*LPSSDSPAS
6993	15044A	7680	1	248 VFVLFVNSGSEANELAMLMARAHNSNIDII SF/RTMCPCDFVRGPWGGSCHRDSPVQTIR KCCSAGPVTGQGGCQWSVGSWKGHE
6994	15045A	7681	1	501

6995	15046	C	7682	60	380	
6996	15047	A	7683	3	649	LSPSYFHISFPHSI.FLPLEGTIVTRNRELW GLLQAMGVHHSRPL.LAPPHFLNLVKVQ DSEQUELPGILQSASMGVGFSLGRNDNSLE TFAETLVPGSIP.LPICLEMHFPLSLCTSRT SVTKLSLHJKPRMPPCDFMPERYQVFLV NSGSEA/NEVLAJLMARAHNSNIDUNISFR GAYHGCSPYTLGI.TNGVTYKMKLPGG TCGQPVSLEIFLFL
6997	15048	A	7684	27	211	FHIVQYFNFFVCLFVCLFETESTLSPRLLEG SGVISAHCNLTLPFGFNNSCASASRVAG TTQ
6998	15049	A	7685	1	310	RPRRRGDHREVKGGRGGKGGBGRQPGQ QRWAvgkGGEGRPQGGQRWAVGKGG GRPQGGQWAEKGKGEGRPQGGQRQ WGKGGEGRPQGGERGPQGGKGEG
6999	15050	A	7686	2	320	KYVFID/SYSIPHRRERFIVVREPSGTl.RKA SWEEFRDRMIVQVYFPKEGRKILTP/IIPEE NLRFEPDSTYEIKVHHKTYEDIGRKGY DLJ.RSTRYFGWEVVWVFC
7000	15051	A	7687	22	1071	GVLRAWNGSVSGLESSPGTVACSNRYL AISRWGCHSRRRNSYGAESGSPETKPT FMDEEVQVRVLTMTGLNLQKTFKPAIQ ELKPPTYKLMTQAQLEEAATRQAVEAAK VRLKMPPVLEERVPINDVLA.GDKDFWK GTTKTYFTDICYCIPHRERFI.VVREPS GTL.RKASL/EDDRRMIVQVYFPKEGRKILP PIIFKEENL.RTMYSQDRHVDVNLNCFAQ FEPDSTYEIKVHHKTYEDIDKRGKYDIL RSTRYFGEMWVYFVNKKKDGLLIDQI RDLDDATNLVQLYHVL.HPDQSAQGA KDJQA/EGINLKVFAKTEAQKGAYIELT LQTQEA/LSRHSAA
7001	15052	A	7688	2	383	FSAPAASEPLPPSGPPSEELPFPSPSDP LAFAPAPPSEPLTFSGPPPSEPLTFSGPPP SDPLCFTAPPSEPVPSGPAPSDRLPFPG PTISEPPNR/PGMPTQPHPI/CLSKNTPLPE PTRLHP
7002	15053	A	7689	3	2484	PAIKIRRVRVRDLOQQQQMAPEI/QPPSH HFSPEQRALIYEDTLYTVLHRLGHPEPN HTVIASELLRYLQEAFHVPEEEHQQLTQ RVRELEKPIFICLKAKTVKQAKGII.GKDVS GFSDPYCLLGEQGVGVPGSPGSRHRQ KAVVRHTIPEEETHRTQVITQTLNPVWD ETFILEFEDITNASFIELDMWDTDVTESVR QKLGEITDHLHGJ.RRFKEARKDKGQDDF LGNVVRLRLQDLRCREDOWYPLEPRTES YPRDRGQGHLQQLVHKRRTASASRSQ SYTVHLHLQLVSHETVQHEAGTSW GRVAEWSQAATVI.FLHATQKDLSDPFHQ MAQWVAYSRLYQSLFEPSSCLLHPITSIE YQWVQGRILKAEQQEEELAASFSSLITYGL SLURRFRSVFPLSVSDSPARLQSLN.RVLL QMCKMKKAEGELCPNTAPL.PQLVTEALQ TGTTIEWHLKQQHJQPMVQGPEAGKA LJ.GLVQDVIGDLHQCQRTWDKJFHNEELI SSTI.KHHLFSMAFREI.QWLVAKRVQDHT TVVGDVVSPMEGESI.FQLVISLKEL.CQ. RMSSSERDGVLALDNFHRWFQPAIPSWL QKTYNEALARVQRAVQMDEI.VPLGELT KHSTSAVDLSTGFAQISHTARQLDWPDP EEAFMITVKFVEDTCRLALVYCSLJKVAR ARELFRRARRTKARAANMLCVVNDME QLRLVIGKLPQALQWEALFQVRGAVILLE QGQJQNTLHAQLSIGALAGLGHETRG VRTLAEQLEVGIAKHJQKLVGVRESVLP EDAI.PLMKFLEVEI.CYMNTNLVQENFS SLLTLLWTHILTVLVEAA

7003	15054	A	769	193	363	IPLALSTGNGTLLFFF*DRVSLLSPTLECS GVISAHCNCLPGSSSYAALAQSQVAGI
7004	15055	A	7690	31	510	GDHASDKEITITIVNYAPNIRACSKYIKQT LTTELKGEVDNSVITAFISLRFQQLPTLK ESLRNRNSSSSSSSS/PSSSSSSSSLKCKSLP TEKSI/GPDGFTDEFYQTKEELK/PKSSSS SSSSSSSSSSSSSSSSSSSSSSPEKDATRE ENVRPISL
7005	15056	A	7691	2	189	TYHIDRIKDCKSHMIIATEKAFDKIEHP MIKALSQLLEVVGWMTNVIKAIYKKSMANI TQQ
7006	15057	A	7692	3	409	NTANRAARVSASIEDSPDNSETLPPDES RNGENAKRFAIDIQGTLTKLAYYSTVOH KVAKGRADDIISGKDTERDTSRPMRVQP KRALLDGTSLRRKPTPKPAWTSSKTIS STQRIP/EVIAQGGAYAKVRLDI
7007	15058	A	7693	88	480	KELLYGDFEDLET/G/DVHKGKSGPDTQN EDIEKQD/EIDPDEKKSACKKHLDKRRKL KEMLDAEYDEGESTYFDDLKGMEMQKEA QMRLKNHRWYKKILKSDP/IFSVGWR VHTILYYIEDHNGRQRLLK
7008	15059	A	7694	1	1068	MAANRKDFIIRRRCGPELSQEAVPQGLC RAERSALAMLSGSVPRTQLRPGCKTGQ RCCRGGEADSGCEAVGGAAERRSAA ARRRGRRRRGGAEVGGGAERRSAA ARRRRGGRRRGGEAGGGGAEARR AAARRAAAARRAAAARRAAAARRAA AARRIAESGGEAHSRGEAHSGEAHSQG AGAERRRPRHLSPALKTHPQOSSEGHE YKLHNHVEFEDQDDEARVQEYEGFRPMY VREJEINVPCEFVONFDPLYP/ILGGLG SEGNVGHVQMRLKKhLWYKKILKSQD PFISSVGRRPQTIPLYYYIEDHNGRQRLL KYTPQHMHCQAAFWGK1*LO*LAYCRD
7009	15060	A	7695	66	844	KEELYGDFEDLETGDVHKGKSGPDTQN EDVEK/KEEIDPDEEESAKKKHLDKRRK LKFMDVYEDEGESTYFDDLKGMEMQKQ AQITA/YRFSPTPSCTLNHAEEFDQDDE ARVQYEGFRPGMYYCVEIENVPCEFV* FDPRYPIIILGLGNSEGNGVGVQVQGPFA AYLFPEALWISPPSILPSSHPPQ/MRLLKHH RWYKKILKSRDPIIIFSTGWRRFQTIPLCYI EDHNGRQRLLKVTQHVHRG/AAFWDKI CLQ*/LAYC
7010	15061	A	7696	1	1177	LRMRLLGTRSLWACRGWGQQHMHAW LTEOPLGVLFEELEYGDFEDLETGDVHK GKSGPDTQNEDEIEKEVKEEIDPDEEESAA KKKHDKKRKLKEMFDAEYDEGESTYF DDLKGEMOKVKAQLNWIVEFEDQDDEAR VOYEGFRPGMYYVRIEJENVPCEFVQNF PHYP/ILGGLGNSEGNVGVYQMRLLKKh WYKKILKSRDPIIIFSTGWRRFHTIPLYYE DHINGRQRLLKYTPOHMHCQAAFWGQPT PQGTGFIAQS/VS/SGIMPDRVAATGVVL DLDKSICIVKKLKLTFGPYKIFKNTTSFIKG MFNSALEVAKFEGA/IRT/VS/SGRGIQKK ALRAPEGVFRASFEDKLLMSDIVLMRLS TCSP/A/FY/NPVTSC*TIGEKHLVRMRPR P
7011	15062	A	7697	163	371	GTTTKLVVKLSDFKSYFKAJVIKTVRN/W HKKVKHJDQWNRIQNPENPHIYQQMIFK KRAKNNQWKDGL

7012	15063	A	7698	270	1479	PGCAFSSSGTSRQLAPVLGYLGSRQKHS LPDPYDYGALEPHINAQIMQLHHSKHH AAVNNNLNVTEEKYQEALAKGRFQAER EKNVVCITNFPGDVTAQIALQPALKFNG GGHINHSIFWTNLSPNGGEPKGWIVYCA PLSTTSCTVGIDVISWAL*QKIP*HVIV*HF TVIIGNLFIGCWFWDFFNRUELLEAIRD FGSFDKFKELTAASVGVQGSGWGVWL FNKQRGHLQIAACPQNQDPLQGTGTYI*IG LSVPVWKTSPLKNVDSKVGRKTVY QGDGHVYNHIFPNQVFWRGRGAVKALNR NLKGAPDLELDGESENRCANGEXGREESER SGR*AWQLCSVITGAPFFLTGLPILLGIDV WEHAYYLQYKNVRPDYLLKAJWNVINW ENVTERRYMACKE
7013	15064	A	7699	94	330	KSRSYKKMCLHFNSGDVTAQIALQPAL KPNGGGHNHISIFWTNLSPNGGEPKG WYIIVHPYLIJFVHSRNRLIYWR
7014	15065	C	77	183	350	MYGLPGFFFYAHRXXXXXXXXXXXXXXXR HAPALRVTNRSHSPTGGRVALPQWLV MV*
7015	15066	A	770	260	360	SPN*SPNVIIDS*DPEKTAATVRGDFYV TGDGMMD
7016	15067	A	7700	33	807	GPRAAQRERHSWLWLRQRLQQIGGISG STTSSMLSAVCOTSRQLAPVLGYLGS ROKHSLPDPYDYGALEPHINAHIMLH HSKHAAAYYNNLNVTEEKYHEALARV DVTAAQIALQPALKFNGGGHINHSIFWTN LSPNGGEPKG/EELLEAIKURIDPGSPDK FKEKLTAAASVGVQGSGWGVLFNUKER GHLQIAACPQNQDPLQGTGTLIPLLGIDV WEHAYYLQYKNVRPDYLLKAJWNVINW ENVTERRYMACKE
7017	15068	A	7701	2	436	SGRGASLRPGVPPSVSWEPYSGPGSTPP PPSSRSKDVGKPAQSWSVRGGSTOPNTFQ LPKEGLSTPHVPRAGIFPSRQALLSGN PGTRAPSAPALRPEAQASPAEPPGAP/SPE LOGGERLGGARFOEPPQPAASFGAAAT QA
7018	15069	A	7702	1	389	PGSSRQRQCWHQPCFACQACGQALINLIY FYHDGOLYCGRHHAELLRPRCPACDOLI FSWRCTEABGQRWHENHFCQCDAGL GGGRYALPGGSPCCPSCFENRYSDAAGS WAGALEGDAFLGE/HWKVTHSLGRLDS TN
7019	15070	A	7703	1	1217	MGGHLANVPTGTSQQTGLMEKHFTSG KOKLTLONNIPOTTERTHNGWHQAWL LVFSCVRSFYVAALFAVGLGGHFWCL AVFSCVAGHSTA VSVLPGSQQHLSANN FVALHSYSAHGPDELDLQKGEVFRVLG KCQDGWLRGVSLVTGRVGIFPPNNYVPI FSTPSQLSGCREVGPTLVKPVVKMVGVY GWEFGSISEGDDHGKAVPSNPS/VVPTAJV NPVRSTAGPGLTGQGSRLKGRSSMRKN GSLQRPLQLSGIPTLVVGSLRKSPT/MGPS ASAVPLPATGDPPLPLSRGGGDGVQA/S PSRGSPPSASAGAVRPGSTPRPAPSILVKPENS TKKPSRVS/LLPKPPASAPSILVKPENS RNGIEKQ/DQNREISEIQA LLPPNITLPYPT SGKPEQPSLPOCVPA
7020	15071	A	7704	27	211	FHIVQYFNFFVVCLFCLFETESTLSPLREG SGVISAHCNL\TLPFGFNNSCASASRVA TTQ
7021	15072	A	7705	27	211	FHIVQYFNFFVVCLFCLFETESTLSPLREG SGVISAHCNL\TLPFGFNNSCASASRVA TTQ

7022	15073A	7706	1	514LSQSEKNNYYSSRFSPDSQYIDNRSVNSD RASQ/ARERAPRLNHPIPQIDSHSRLPHS AHPGSKPPSAPASAPQN/VFSTTVSSGNT KKIGKRNLNQLKKGTGLFISITSRDVTI GSAPIYVKNNILPRGAJQDGRLKAGDR LIEVNGVIDLGVKSQEVEVSLLRSTKME G
7023	15074A	7707	65	515DPRVRRAAGILYEFTWNQFCDWYLELTGP VMNGGTEAKLRGRTRHTLVTLVLEGLLRL AHPUIPFITEIWQRVKVLCGITADTMLQ PPCQYDASQVDDEALADATEWLKQAIWA VRNIRAEEMNIAPGKPELLELLVAGICTRNP TSVNENRGEL
7024	15075A	7708	2	505EPVKKIFNYIHHVFRNIMDFKFLFVFVAG VFLFFYARTLSQSPTFYVSSGTVLGVLM TLVFVLLLWKRFPYKYSTFRALMVGCWF ASVYIVCQLMEDLKWLRYDNRVLGY VLVJGFFSFVVCKYKHGLADDRSRSLLM WMLRLLSLVLYVAGVAVPOFAYAIIIL
7025	15076A	7709	2	417EPVKKIFNYIHMVNRNIMDPKLFVFLFVVA GVFLFFYARTLSQSPTFYVSSGTVLGVLM MTLVFLVLLVKRFPYKYSTFWALMVGC WFASVYIVCQLMEDLKWLWYENRJYV SYLVJGFFSFVVGTSMQPLADDKSRNL
7026	15077A	771	80	357GFFFFFGDRVLLCIPRLECSGMITAHC LKLCSQ*PSHNSLNSWEHRHMPPHLA KFFFHQQTKL*KK*KNKNRSLESAPLSVFI KKVTT
7027	15078A	7710	14	426RPIRMAVKQKISMCLCHVNPEQVICHHDVS STYRVPVLEEQSIVKVKERLHLPJGDS ASNLLFKWRNMAUDRYERLOKICSIALUV GKYTKLRCDCYASVFKALEHSALAINIKL NLMYIDSIDEKITETEDPVKFHE
7028	15079A	7711	61	204GRAYVWHCPQGPGLETPLVADTSGA YPRERGLGSNYLGRGRSPTEVS
7029	15080C	7712	537	710MCIIIHTQPIFVFVVEMRFYYYYVGQAGLEV LTSGDPPVSAAQSTGIGTGLSHRAQPSSVR F*
7030	15081A	7713	788	894KHGWLGTVATHCNPSTLGGQGGWIMR SGVQDOPQ
7031	15082A	7714	1	452SPVPOLIVPTVLSVLLPEPLGAPLPA LWTHLWAPRAWKOSPWQAPGLGRPLS SLIGGSCGAPGAYITRDPDIRLHDKACPAE HGGGRGPGEAAASRPLTAPSPGGCPERGL GTTSPSQRTASSGGSYRSFTDPPPPP HHRRFPLT
7032	15083A	7715	48	421DLQSSQGGQQPRVQWSPPGRGIPQLPC AKALYNYEKGEPGDLKFSKGDHILRTQV DENWYHEVNGIHGFPPTNFQIIKPLP OPPPQCKALYDFEGKDKEADKDCLPFA KDDVLTIVRRVV
7033	15084A	7716	2	492LTLLNITIPSLARGNFYPLEGGGRVLLDGK PISAYDHKYLHRSVLSQEPVLFARSIT DNSYGLPTVPFEMVVEAAQKANAHGFI MELQDGYSTETGEKAQLSGGKQORVA MARALVRNPPVILDEATNALDADSRL IQHALSGNLRKHRDPLSPVWP
7034	15085A	7717	2	721EGKVEEPNPAAKEKCGKEEEETDGS GKESKQCEEAASVSKNELKGVEVGAN TGKSSIEKGSSEEVRRKSWRMTNKSEES SQEAGAVSRGKNFDEESNASMSTARDE TRDGFYMEDGDPSPVAQOLHERTFAFSE WPKDVRVMINRLDNICAEAVLKGKWPVN RRQMFDFQGLIPGYPTTVDSPQLKRSF AELSMVGQASISGEDITSPLQLSKEDAL NLSVPRQRERRRKIGN

7035	15086	A	7718	111	381	DRGLASFAQGLEYQWHNLSSLQPSPPV LRPF/SPCLGLPLRGCDYRPPVPHQANFCI VSRDGFYHVQQAGLELLTSSDPPTSQSQ SAGITGV
7036	15087	A	7719	1	190	ENKEEGQLPSSFYEAIIITLKPDKDSTK KS/SYRPT/SLMNFDAKUFNKMFTNRQQ YIERIIH
7037	15088	A	772	80	357	GFFFFFGDRVLLCHPRLECSGMITAHC LKKLCSO*PSHNSLILNSWEHRHMPPHLA KFFHHQQITKL*KK*NKNRSLESAPLVSFI KKVTT
7038	15089	A	7720	1	2499	MAAAVAAPLAAGGEEAAATTSVPGSPPG LPGRSRAERALEADAVATGTNLNSRNRLK HPPRGAARSYDLSLDITQADLSNRNPVEPV EAACQLVSELEGISLYHNCLRCLNPALGN LTALTYLNLSRNQLSLLPPYICQLPLRVLI VSNNNKLGLAPPDTGLGSLRQLDVSSNEL QSLPSELCGLSSLRDLNVRRNQLSTLPEE LGDLPVRLLDFSCNRVSRIPPVSECRUHL QVILLDSNPQLQSPPAQVCLKGKLHFKYL STEAGQRGSALGDLAPSPRPPSFSPCPAED LPGPHRYDGGLDSGFHSVDSGSKRWSG NESTDEFSELSPRISELAEREPRGPWERKED GSADGDPVQIDFISHVPGEDIERGTVEE QRPELSPGAGDRERAPNSRREEPAGEE RRRPDTLQQWQERERRQQQQSGAWGAP RKDSLKPGLRAVVGAAAATSTQAMHN GSPKSSASQAGGCSGAGSPAPAPASQEP LP1AGPATEAPRPLGSIQRPNSFLFRSS QSGSGPSPDSVLRPRYPQVPDFEKLDM TQLRQVLESRLQRLPFLPEDLAELASGVIL CQLANQLRPRSVFPIHVPSAVPKLSALK ARKNVESFLEACRKMGVPEADLCSPSDL LQQTARGRLTALEAVAKRVGKALPLW PPSGLGGFVVVFYVVLMLLLYVTYTRLLD PRSPQVAWEVAPSMTPLAPWDPKYEIA KAGRPVVVSWWGQTCGTGWAQGAQAVR WPEAPVLCPPHPRGPTVAQEPRPSQAGRC VTPHSGRCMKQPRAGVSGWPWLPGTG MDSPRRPQMOGSRWCAVKMSSRILCCP GGSVFPCTICPRPPSE
7039	15090	A	7721	1	647	RPPPPVQVPDKKDLMTOLRRLVLESRLQR VPLPEDLAELASGVILCQLANQLRPRSV PFHIVPSPAVPKLSALKARKNVESFLEAC RKMGVPEESLQPHIILEEGAPGRGLR LIIAAVQVRPAGPALGVKVGAQGPPRPG PREQKTRLGSALSEKUVVRVAWAWARL GLPRLAASGVEGLGQRTCGCRRCRVS NKQKPEALWKRGCKIKKKL
7040	15091	A	7722	3	450	SRSLVQREGIPPLGGWRMGVRRTQGVGP TMHPPVSGASP/PPPPPPPPPHIIPHL LRTSCVPSGLYAOSSSSSSSSSSSSSSSSS SSSSSSSSSQLNKLPLKFQVSSPNSTLSSSF SFLPFPPASSLTRQFPIECLPGAGMSQVL GK
7041	15092	A	7728	3	368	LLGQAVKYGVNPQPGPYGGTTRKLYEK LLRLRFQGPESRCSTPVPTISSAENARQ NGSDNSGRYSVNEEDSKIELKLEKRDP KGRAKTPVTRKQRRVLESYSQAGMD EGVWSSGSSKG

7042	15093	A	7729	1	1492	ALMDEILMLQDEINELQSSLAELVSESC EADPAEQALQSTLTVLAERMSTIRMK SGKRQLLEEKLNLDQLEEQRQEQLAQRY RCEADELDSWLSTKATLDTALSPPKEP MDMMEAQLMDPCQNLVEIEQKVVALESEL SVHNENLLLEGKAHTKDEAFQLAGKLRR RLKGSLLELQRALHDKQLNMQQGTAQEQ KEESDVTDLTATQSPGVQEVLQAARTTW TQQRQSSLQQQKELEQELAEQKSLLRSV ASRGEEUOHSAAETSGDAGEKPDVLSQ ELGMEEEETSAEDQMRMKWESELHQEFS TKQKLLQNVLQEQEQLVYLSRPNRLLSG VPLYKGDPVTQDKSAVTSLLDGLNQAF EVSSQSGGAKQSHLLEQKLKYDGVSATS TWLDDVVEERLVATALLPEETECLFNQ EILAKDICKEMSEEMDKNKNLFSQAFPEN GDNRDVIEDTLGCLLGLRSLLSDVVNQR CHOMKERLQOILNFOVSKLSKDT
7043	15094	A	773	810	1075	SLRSSKTOPRHGKTSLLKQKSRVW* RTLLLGKLQRQENCLNPAGGCGSEPRLHH CIPAWATE*DGSQKKKKQGRKSCHF SVRT
7044	15095	A	7730	1073	1233	PYSGLGIFFFFLRHLQTLSPRLGCSELRLC HCTPAWTVTSKTVSKNKKQNSR
7045	15096	A	7731	34	445	TITHASGDHSKPIIUCS/TG/SYFFANSLPSKG PTTLMPPVNTAALTVPANPASVTVPSKLP TSSKPGGAVPSENALTNPAPSKLPINSTRA GMVPSKVPSTMVLTKCASTVPTDGSII NEETPMAPTPAGAVQSSLAWLDT
7046	15097	A	7732	3	416	
7047	15098	A	7733	1	2115	
7048	15099	A	7734	1	662	SLFASNVSGSHFIGLAGSGAATGIVSAY ELNGLFSLVMLAWVFLPIYIAQVTTMP EYLRKFRGGGRPHILAVLYLHVIFTKISV DMYAGAIFIQQLHLDLYLAIVGLLAIATA VYTVAAGGLAAVITYTDALQTIMLIGALT LMCYFAAVGGMEGLKEKYFLALASNR SENSSCGLPREDAIFHRNPLTSIDLWPWG VLFGMSIPSLWYWCTDQGG
7049	15100	A	7735	3	315	
7050	15101	B	7736	107	388	SKKLLFAGSRSQQLVLPVADCKYRSCA DCVCLARDPYCAWSVNTSRCVAVGGHFHG SILLIQHVMTSIDTSGICNLRGSKKVRPTPK NITVVAGTDL*
7051	15102	A	7737	98	473	IRGDTISITYVRSPPPRAGREYA/IMSTA/GPP SFSPSLTQPFPALEYREEGKYKIPLNPGPAK/ YVRAPPNPSQTHSRLHFPSPHNPENIHPR WSRTRPTPSPALPLKGHSTLSTPPPYVHR CPTFGGGGQ
7052	15103	A	7738	2	433	GDTGHRRERSLGLLREKHTWGPHPHQATP QAAVPTSSRYTQPQPGWVTVQQQPSR GEHPRPAAGLSQLLHLGVPDILGQGSQL DCEVTPKPSYSFPGTSGAGPPGTMGSSL ONGNWDEEAHTLPQQEGMNEGQGPW RJLIFR
7053	15104	A	7739	328	496	HNTDLFPI/CYIEMECSVTVQAGVQWRD LGSLQPPPLGCKQCSCLSLPSSWGLQVP ATT
7054	15105	A	774	499	946	LWLRLPRPGAGIAGACIQLRREGTWLPLR SHQGCKCEAASPWVSRLELQQPKPSALW WPLGLIHVHFWKYTCAGSFLAGKLRLI TTFNF/LFFFPLPPFISCIPYLFELFLFFRDGV SLCCSGWP*TPQLKQSSCLSLPSSWDFKC TPLLCL
7055	15106	A	7740	1	372	MEKEEIPGVVERKKENRVKEVIIHNRKG EGPPAGAALPLGGGRGEG/PSEPPGAAA PRAGERCGQLAGASPEPAETGIIREPR GASAARKLAAAAPVGLLRPGCPRAIGR

					RAPWPGKRLSEPRV
7056	15107	A	7741	34	366 ERPGPGVGTLTTPTQPHPPAGP/S/GRPGS LGFTWPYPGPGCWRPAWFARPPPAGSI TPPGFCTHTLVLSDLGPRDCSPPTGDCDS LCPHPDASPQIKACFAQGKKKKKK
7057	15108	A	7742	2	462 IRARNYKLRKVMVDGDIPPRVVKDAHE LILDFIRSRPPLKQVSERRLRLPQQRSLS HEKILEEIKQERRLRPVRGE/ELGCPRVW LS/PASSTPAPEMPSPPPASTCQSQMLGA APSAR/VPRVLLKAPTLAEMEEEMNTSEIR AOQPNRNTAHNO
7058	15109	A	7743	2	1002 TGPVGPMQCQVGEDYGEPAEEPPPAPRP SRBQCKVCKKEAQPVVVIRAGDAPCRD CFKAFYVHFKFRAMLGKRNRLFSGEKVLL AWSGGPSSSSMVWQDLEGLSQDFQFARL RFVAGVIFDEGAAACGOSLEERSKTIAE VKPILQATGFPWHVVVALEEELVGSEGAY KAAVDFS/RPAACAGGGPVVLARLK RNHSHPSP/SLDPQNLLARPAPQAETALSQ LFCSVRTLTAKEELLQLTRTHLILHVARA HOYSKVMGDSTCLRALKLMTNLALGR GAFILOWDTGFSDERHGDDVVVVRPMRD HTLKEVAFYNRLFSVPVFTPAVDTKAP EKAS
7059	15110	A	7744	2	397 ADPTDPSKKFQRSK/NYKGPLDPQRKGKIE DKVNKSXVILKEPGLEDLTGTSIDVTD DEDASHTLTEEELKLKKLHSHEIRNPGI KLISGWNIIDILERGEARLWLELEKLCPA EHLIVHNKEIFLPNR
7060	15111	A	7745	1	849 QKKEGLGHVNGLWDKGSKRTTFPSSTDLD LDRSASKTELKAIAHARILERRASRPGTP TSSASTETPTFEQNVDDEDIIVDDEEPV AEPDYVQPQLRRPFELLIAAMERNPTQ FQLPNELTCTALPGSSKRRRKEETTGKN VKKTQRELDHNGLVLPLPVKVFCTCNRR CRVAPILJQRDYCPLJLHFMDCDCPEPTAM PLGRWMCSMHIEHVVLNHNNMTLSYRC QVFDRFQDTVSQHVVKVDFNLNRJHKKH PPNRRVLLQSVKRSSLKVPDAIKSQNQVS TP
7061	15112	A	7746	1	201 MKKKKEEEEEEEEEEKEEEEEEE EEEEEEEEE/EEEEKEEEEEEEEEE EEEKKKKKHHNPKILSNLYIFIIIFYCSKK
7062	15113	A	7747	3	112 KTRLGLGMMAHACNLSTLGGQGGRVTR SGVRDQDPLK
7063	15114	A	7748	1	1476 LTVIRRVDENWAEGMLADKIGJFFPISYVE FNSAAKQLIWWDKPPGVGDAGECSSAA AQSSATAPKHSDTKCNTRKRHSFTSLTMA NKSSQASQNRHSMEISPPVLISSNPTAA ARISESLGLSCSAPSQVHISTJGLIVTPPPS SPVITGSPSTFSPSDPYQAAALGTLNPLP PPPLLAATVLASTPPGATAAAAAAGMGP RPMAGSTDQIAHLRQTRPSVVAIYPY TPRKEDEIELRKGEMFLVFERCQDGWPF KGTSMAUTSKVIGFGPNYYAVPVTAVT NASQAKVPMSTAAGQTCSRGTVMVSPSTA GGPAQKAQGNGVAGSPSVPAAVVSA AHQTSQAKVLLHMTGQMTVNQARNA VRTVVAAHNQERPTAAVTPIQVQNAAG LSPASVGLSHSLASQPAPLMPGPATH TAISIISRASA,PLVACAAAAPLTSPSITSAS LEAEPGRIVTVLPGLPTSPDASSACGN SSATKPDKDSK

7064	15115	A	7749	139	6503	LSGITKMTLHATRGAALLSWVNSLHVADPEAVLQLQDCSIFIIIDRIGHTEEGQQILKQPVSERLDFVCSFLQKNRKHPSSPEC LVAQKVLEGSELELAKMMLLYHSTMSKSPPDWEQEYKIQAEALAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPSHQAKREIRFLEIJKVASSSSGNFLSGSPASPMGDLQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEKDA
7065	15116	A	775	56	425	GQSPGHHWGHVQAARELLRPGRPLPCVVDPGHTPVRPVGPEPPTGSRLSGEESPRSPSSQAARPQPQPPRDPPSSLRIP1LLPRP*LSQSGLASSGSGLRAGALPRRPGPALSPICTSI
7066	15117	A	7750	1	5290	MTLHATRGAALLSWVNSLHVADPEAVLQLQDCSIFIIIDRIGHTEEGQQILKQPVSERLDFVCSFLQKNRKHPSSPEC LVAQKVLEGSELELAKMMLLYHSTMSKSPPDWEQEYKIQAEALAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPSHQAKREIRFLEIJKVASSSSGNFLSGSPASPMGDLQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEKDAQIAAMQ
7067	15118	A	7751	241	6574	LSGITKMTLHATRGAALLSWVNSLHVADPEAVLQLQDCSIFIIIDRIGHTEEGQQILKQPVSERLDFVCSFLQKNRKHPSSPEC LVAQKVLEGSELELAKMMLLYHSTMSKSPPDWEQEYKIQAEALAVILKFVLDHEDGLNLNEDLENFLQKAPVPSTCSSTFPEELSPPSHQAKREIRFLEIJKVASSSSGNFLSGSPASPMGDLQTPQFQMRRLKKQLADERSNRDELELELAENRKLLTEKDA
7068	15119	A	7752	775	1128	REGIYLSRPFHISKLPTQPDGTSPVPOEPASPIQRLLPKVESLTYFTPIPARSQAPLESSDLSGLDFVLDSGRKTRSARRRTTQIINTIMTKVRLLGQQLGSNSHFSRSALSQ
7069	15120	A	7753	331	530	LKFFFFFFSGGDMSKNVSQSQMAKLNNQMAKMMDPRVLHIMGGMAGLQSMMRQFOQQAGAAGNMGM
7070	15121	A	7754	1	1517	MVLADILGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMHQAHVFKELEVKLDPGVKAWTPTGKQNVIMFVGQSGKTTCSKLAYYYQRGKGWKTCLACDTFRAGAFDQLQNATKARIPIFGYSTEMDPVIIASEGVFKFNENFEUUVDTDSGRHKQDSLFEEMLQVANAJQPDNIVYVMDASIGQACEAQAKAFKDVKDVVASVIVTKLDGHAKGGGALSABAATKSPUIPIGTGEHIDDFEPFPKTOPFISKLLOMGDIEGLIDKVNEEKLDDNEALIEKLKIHQGFTLDRDMYEQFQNIMKMGPFSQLGMIPGFGTDFMSKGNEMESMARLKKLMTIMDSMNDQELDSTIDGAKVFSNSNSGRQRLARPSCVTSVDQELLTQYTFAQMVK*MGIGKGLFKGGDMSKGARSOIAKLNQOMAKMMDPRLVHIMGGMARMQLSMMRQFQGAAAGNMKGMMGFNNM
7071	15122	A	7755	42	449	FGINFLRPPVPPQHPKPHYSRIPGA/HAPPGPQNPSTFLSPLYCWGPSSKSPGAPKRCPSISTPPSATPPRILTGSWPQGRCOKDGEAQSYQVRQDPTASPQAGQSRLPWSWSNQTYLQLGHGRPRAFTLQLPG
7072	15123	A	7756	3	358	LJIIISSTIUPPTYPPIHPGHHFFPLPFFFFFSSFSFSFHPSTHPLHLSITYPPPIHPSVYPPVPLSLSVYSSHLPTPEYPLFQPVVAH/RRSRGISSMPGEQSPIPRI.WKSPSSKPPPFW

7073	15124	A	7757	1	1668	MLVIFTQPPEVHOYNHSSAATRSRFQRLQLQLIWGVWSQVLPMPSAFYQIIQASGLRLHACVTPGAGTHSLPFLPSVGNLPSNKGNSRVYCCFADLFDILLPMLNMQEVRNRHQSLOVLANCEQRDFDKLLKQEYANPACEGRMLETFLTYPMFQIPRYIITLHELLAHIPHEHVERKSLEFAKSKEELSLSMIVEGCDILLLDTSQTFRQGTMKNSNTIVKHEWGRQLHSWDWLSSGPDLCSSKEDRSAWPTAVAVPSADDTQAKAQEKLAALKSPFHRIIGTMSEQS*SLHQTEQEGLKLPSCSIIHRIITFLQIPLNSAPPSTAWRTDGGQCPLLCFTGFCCFNCSHCSRTEWPPEEEEDICLPTSQARCNERYVGLRKSIIMLVQKKDKKNITCRSLTPSEEGLGTVKVLVFSEIMFNLDLKIVVEPPDAAAFTVLLAAPSQEKAAWMSDISQCVDNIRCNGLMTIVFEENSKVTPHMIKAKVNGCTMSHLDNSLTLPFDITEQGRSSSWTAGHVKAFCPLHQAQPLLASLFLQELQAFARMSPYP
7074	15125	A	7758	1	2247	
7075	15126	A	7759	1	3711	
7076	15127	A	776	3	383	QGFRKLPLKTTTGKEKTHSCIVGLGHVN SGKTTTTGHLIYKCGGFDRTRIDKFETEAADKAKGSKFKNAWDDKLKAERERGIIDISLWKYETSRYYVTIIVAP*LDFINMSTGTSQADCAGLIV
7077	15128	A	7760	1	226	SLEFSOSKLOYLSRVKHDDEVSDTENIRINLAIERMIVEGCDILLLDTSQTFRQWDHENQOHNHSKARVGQAVT
7078	15129	A	7761	41	1065	GRLGPWHWSQREGAEQAWQAAQPEPCPAGRQLRPGEEKSSTAAPGPGAKLPPTARGQRGRPAALSAQGPTEAPEPTPTRNSGWPA SAPPV/PRWGQPLLGVPGPBEAGRYSAAPSLSLRPAWWPQDV/PVAWQSATDDAYEALSPSSCAFAMPSVPAYPSITVTPDEEQLNHYIQVLENLVRSPVSPSGERGREKKSNSPKHVSIAKSGSKFKELVTHGDASTE NDVLTNPISEETTTFTGGFTPEIICKKKHITESTPFWSIKCPNNVSIVLHAEFPYIENEPEPEPEPAAKQTEAPRMLPVVTESSTPVYT SYKSPVTLKDSTGIGDLYRIRRCCSSALR
7079	15130	A	7762	3	342	KERSREKTGGODLQREVAREDRRWRSQREDAREDRRWRSSSERGRRLRQAVAEIFRDAREDRRWRSSERGRPRRQ/RG GODLQREDAREDRRWRSSEREMPEKTGGGG
7080	15131	A	7763	205	338	NPYIYSQLFFDKGTKNIIHWGRDSLNFNKC CSENLISHURKIKLDP
7081	15132	A	7764	1	666	GDPGAAGPDGHNRFDGPPPPPPCELLHVAIVCAGHNSRDVTLVKSMLFYRKNPLHLMVTGAVARNIMETLFTHTWMVPA VRVFSFYHADQLKPQWSWPNKHYSGLYGLMKLVLPSALPAELARVIVLVDTDTFA SDISELWALFAHFGSVILLRLDRLRQAGWEQMWRLTARRELL/GLPATSLADQDIFNAVKEHSGLVQRJPCVWNVQLSNHTLAE

7082	15133	A	7765	3	1289	INFPTTSGLDGDPGAGPGDHINRSDCCPQ PPPPPRCELLHVAVCAGHNSSRDVITLV KSMLFVRKNPLHLHILVTDAVARNILETL FHFTWMVPAVRVSFYHADQLKPQVSWIP NKHYSGLYGLMKLVLVPSALPAELARIV LDTDVFASDISELWALFAHFSDTQAIQL VENQSDWYLGWNWKNHMPWPALCRG FNTGVILLRDRFRKAGWEQMWRLTAR REIJSLPATSLADODIFNAVIKEHPLGLVQ RLPCVVNVQLSDHTLAERCYSEASDLK VIHWNSPKKVVLWNKNHVEFFRKJTYLJL ENQGNLLLEEVFLCPSPQQQLTVHRGHVLLF PLPQLDDEEPCEFRRQQQLTVHRGHVLLF LPHFPPPRPHDVITLVQALSMMDRLQMLLE ALCRHCPGPVSLALYLTDAAQQFLHFV EANGVGIDRV
7083	15134	A	7766	530	820	
7084	15135	B	7767	1	954	MATAATIPSVATAAAALGEVEDEGLLA SLFRDRFPEAQWRRERPDVGRYLRLESGS GLERLRREPERLAERAQQLQQTRDLAF ANYKTFIRGAECTERIRHRLFGDVEASLGR LLDRLPSPQQCSRSPRAARNASIMAG AGTAGPASPGPGVVRDPAASQPRKRPGRE GEGGARRSDTMAGGGGSSDGSGRAAGR RASRSGRARRGRHEPGLGGPAERGAGE ARLEEAVNRWVLFKFYFHEALRFRGRSR YGDFRQIRDIMQALTFFRGTLQSSKQE LSLDLSSESIKNIQVNITYSLRSRDCANFD ILYDIKPF*
7085	15136	C	7768	97	408	MKTKVQPRLTVRVARNCSPKNKAHDNK QNWSWEEDSQITEPSAGLNSSQEAVASP PSKPTVFNQPLQGEKNPKYEDLCCRNG AGWWSWGLVLLPGLKETFS*
7086	15137	A	7769	1694	1866	PLIACSSFLFLFFFRLRQSLGSVHPLGVA QWRDLSLRPFPGLTQFSCSLSLPRSWN
7087	15138	A	7770	106	317	CSAETEREIGRRK*CIOQESSSPSPLSIKCP ICKAD*YL*SHLGATADAAPLQLSSL*Q DLPSYREADL
7088	15139	A	7771	321	449	
7089	15140	A	7772	2516	2717	FVKSKALAFFLSSFFFFFLKQSLSVTQAG VQWVPVDSLQPLPFRKRFSCSLSPSSWD YRCVPQCPAN
7090	15141	A	7773	3	282	
7091	15142	A	7774	1	1126	MRPGSQLTDVTLEPRSEGGKEKSIPERRNG PCKDPGAAACKLCLTSVLFAATNRHYML HNLLRQGVSRASRQSALTOSSGTIPAMY QCSKTYIIFQOGIQVVDYQEVTHTGPLSIEG SMLDIKYIIVNRGEHKNGVLEEAIIATIL KEVLEGLDDYLHRRNGQIHHNSRKELENDIR FEFTPGRGPKGNDGECDEKEHTTVLMRV EQQWDIITERKTOTQMSSTEAKVNDTAD GVSQELFSAGLVQDHVVIACPSRNRLJL FIGIISTFPQAQAKTLGIVLDFSI:SHISIPT JLNVPRLPLLTSIHPITFQAPLNSQLSSCI HPFAAJPASVLASLQPVVLISTARDPGTSH YSSALGFIGQQPQAYMELSPVIGELCLSK VTE
7092	15143	A	7775	2	1622	
7093	15144	A	7776	1	698	MAAKLVGIEFDPCWWVKMLMEKGHQJKT REHNYPMSMEQSEKAGVTNDN1QGKTKAL AGSRQSANGKNSHCKENVTWLJHYYV QPMKPYEVFWIEFVTHOKATKYLCLQPLT TSPDAVPPFGELLAEILLKIPFVYVSLRFSPG YAEIKHSGGLLPPSYVVPVMSELSDQNM TFIE/RGRPTTILSETMAKADIWLIRNYWD FQFPHPLLNPVEFVGGLHCKPAKPLPKTL GHGWDRAP
7094	15145	A	7777	1	1584	

7095	15146A	7778	2	1627	AATGKQALHCIRMSMKWTSALLIQLSC YFSSGSCGKVLWWPTEFSHWMNIKTILD ELVQRGEHVTVLASSAASISDFPNPSSTLK FEVYPVSLTKEFEDIKQLVKRWAELPK DTFWSYFSQVQEIMWFNDILRKFCKD VSNKLLMKKLQESRFDVVLADAVFPFG ELLAELLKIPFVYRPRSPGIAIEKHSGG LLFPSPSVPPVMSSELSDQMTFIERVKNNMI YVLYFEFWFQIFDMKKWDQFYSEVLR PTTLSETMAKADWIJLIRNYWDFQFHPL LPNNTVGGLHCKPAKPLPKEMEVEPVQ SSGENGVVVFSLGSM/SVNTSEERANVIA SALAKIPQKVWLRFDGKPDTLGLNTRL YKWPQONDLLGHPIKTRAFITHGGANGIY EAIYHGPMVGVPPLLADQPDNIAHMKA GAASLDFTMSSTDLLNALKTVDNPL YKENAMKLSRRIHDQPVKPLDRAVFWIE FVMRHKGAKHLRVAAHDLTWFQYHSI DVTGFLLACVATVIFIJTKCLFCVWKFVR TGKKGRD
7096	15147A	7779	1	187	SCRPFCCCCGFLPFLFFFFFF*DRVSLLLPR QCNGTISAHCNLCLPGSSDPSASARVA LP
7097	15148A	778	213	500	SKRCRLSLGRGASSLEAAFHLSCCPQADG LRSRSPQWASAPPQLLSCPSAGPRGPLOL ARSPGSRRGPWPPPQGPPHQHSALT*AP AQKRKRKN
7098	15149B	7780	436	711	DVKJGGIGITVPGVRVETGVLKPGMVVT FAPVNITTEVKSEMIIHEALSEALPGD NVGFNVKNSVKDVRRGNVAGDSKND PPMEAAGFTAQ*
7099	15150B	7781	26	384	MIIHEALSEALPGDNVGENVKNVSVKD RRGNVAGDSKNDPPMEAAGFTAQVIILN HPGQISAGYALYWAIVDMVPGKPMCMV ESFDYPPGLRFAVRDMRQTVAVGVVKA VDKKAAGLAS
7100	15151A	7782	3	523	FAPVNITTEVKSEMIIHEALSEALPGD NVGFNVKNSVKDVRRGNVAGD/SKND PPMEAAGFTAQVIILNHPQGISAGYAPVL DCITAHAACKFAELKEKIDRRSGKLED GPKFMVPGKPMCMVESFSIDYPLPGLRFA RDRMRQTVAVGVVKAAGAKV KSARKLQKAK
7101	15152B	7783	32	188	MVVTFAPVNITTEVKSEMIIHEALSEA LPGDNVGFNVKNSVKCWIWFLASPX*
7102	15153B	7784	60	209	MIIHEALSEALPGDNVGENVKNVSVKD RRGNVAGDSKNDPPMEAAGFTAQ*
7103	15154A	7785	3	313	
7104	15155A	7786	13	555	
7105	15156A	7787	3	366	IGV/NPDTVACV/PILGWNGDNMLEQSAN MPWFKGWVKTRKDGNASGTTLEALD CILPPTRPTDKPLRLPLQDVYKIGGITV VGRVETGVLKPGMVVTFAPVNITTEVK SMEHHAEQAKAK
7106	15157A	7788	1	513	EAGISKNGQTREHALLLAYTGLVKOLJV VNKMDSTEPPYSQKRYEEIVKEVSTYIK KIGYNPDVTVAFVPISGWNIACKFAELKEK IDRRSGKKLEDGPKFLKSGDAAIIVDMV PGKPMCMVESFSIDYPLPGLRFAVRDMRQ TVAVGVVKAAGAKV TKSAQ* AQAK
7107	15158A	7789	1	1099	
7108	15159A	779	1	615	

7109	15160A	7790	1253	2560	SLVMLPLFDMVPGQAHVLLRASQDYPFF GSLCWVFVIMRTDSCGWVSIKSSQKRL ELIDAPGRDFIKNMITGTQSADCAVLIV AAVGVEFEGISKNQGQTREHALAYTLG VKQLIVGVNKMDSPEPPYSQKRYYEIVK EVSTYIKKIGYNPDTVAFVPISGWNGDN MLEPSANMPWFKGWVTRKDGNAGST TLEAVDCILPPTRTDKPLRLPLQDVYK JGGIGTPVGRVETGVLPKGMVTFAPV NVTEVKSVEMHHEALSEALPGDNGVGF NVKNSVVDVRGRGNAGDSKNDPMPMA AAFTAQVILNLIPGQISAGYAPVLD HTAHIACKFAELKEKIDRRSGKLEDGP KJLKSQDA/APLVDMVPGKPHVCLRSFS DYPPLGLRFAVRDMRQTVAVGVIKSSVD KKAAGAGKVTKSQAQAKA
7110	15161A	7791	39	362	AEGWARNMPPFDLQMTDQVSLLRLTW SEFLGLNAAQCSMPLNEA/PLAAGLQ AYPMASADRRVAFMHDHIFQEQAEKFRA LIVGSPEKQCLKAIVLFTSNTWGRG
7111	15162A	7792	19	384	FISSIKFIMSFNFTSLHHFFISLQFISHHYI SSEK/SHFISPHVISSVHLIFSSHFMGSQQ LFSSDHIIISCHRFRMSYLLRSVQFHFNIS HYFRSSHLITSCHHISCNQNQSSQHFS
7112	15163A	7793	16	450	TQGHQSPPPGS/PHAAHTCCPGRGEA GGTGSCLLLQGQHTRPAAALKDWPGGR PEGHKVRSRDPGPRPASSTVQLKGLSGER DGCPPLRPGPGPHRAEGSPSRALRPPGIR GNTATRTPVSSGMRAASCQAWRNEVRS LMVQAP
7113	15164A	7794	1	427	
7114	15165A	7795	1	330	
7115	15166A	7796	3	1229	SPSPSP\PLGLASQDSRPVFPSPITPAMA/AVP TQPOSKEGPWSPSESPMLRITAPLPPG SMAVTPLGPGEIASTTPPSRAWTPTQEGP GDMGRPWPVAEVSSQGAGIGIOGTITTSST ASGDDDETTTTTTTTTTTTTQTPGPCSW NFSGPEGSLSDSPTDLSSPTDVGLDCCFYIS VYPGYGVIEKVQNISSLREGETVTVEGLG GPDPLLANQSFLLRGQVIRSPTHQALR FQSLPPPAGPGTFFHYPQAYLSSCHFPR PAYGDVTISLHPGGSARFHCA/TGYQL KGARHLTCLNATQF/LWDLKEPVCLAA CGGVIRNATTGRIVSPGFPGNYSNNLTC HWLLEAPEGQRQLH.HFEKVKSLAEDDDR LIIRNGDNVEAPPVYDSYEVEYPPPPP QPHYHRVSV
7116	15167A	7797	110	342	FVLPTKVVYEGERAMTKDNNLLKGFE GIPPA/GVPOIEVT/DIDANGLNVA D KSTGKENKITITNDKGKEA
7117	15168A	7798	1	335	NFC TREDHQYAPLDPKHGHLLPRMRP SE RLM AEEA AFYSPPYH DRPTNSEGWE IHT GLYESFRAKLRSRPRRKGP EKRN SGP SRSR NR SKS RGR SSSRS NS RSS *SSG SYRS
7118	15169A	7799	110	409	
7119	15170A	78	226	481	CLAHSHRSINISTCTGAEGHESESFSYWG TRGP SAT MACD GLTRT GHSS P RAS PP LL CAR SLT KAAC Q* A VP V TW CHC W RP Q G
7120	15171A	780	140	459	RSSLPCLGLWTHLIPVKVRDSLGP AEKADMPVLYDRLLKLMEMLYFKSGT I PMFYG*APR RVYIIGERIH YC GS V LP MA VEQDV LIAVEPV KTY ALQLAN
7121	15172A	7800	40	621	

7122	15173A	7801	1	338	GITSFYLTKGVLSSKGVPMSHYAGTLL LLAGVCLRGIVRWTNPYRKTMTP* ASHRNQSSKYPRHANYNCDFRSWPPD FHCDPEITNESQQGPPIRSVHTASPKPM
7123	15174A	7802	1	390	ILDCHTDDSGTYRAVCNTYKGEASDYAT LDVTGGDYTYASQRIDEVPRPSDFELT RTEAAYVSSFKTSEMEASSVREVKSQ MTERESLSSYEHSASA*MKSAALE*EKS EEKSTTRKIKTTLAAR
7124	15175A	7803	3	235	VNSAEBAEEQANTNLSKFRKVQHEDDE/ AVALPHFDLILQLVLHLADEAERADIAE SQVNKLRAKSRDIGTGGLNEE
7125	15176A	7804	2	561	MRPHRLDEAEQIALKGFFKQLQKLEARG RELNELEAEQKRNAESVKGMRKSERTP SKELTYQTTEEDRKNLAAACRTLVDKQLQ KAAYKRQAEAAEQQSPPTNLAASKFRKV VQARAGLRAERADIAESQVNKLRAKSR DIGTKGLEMKELAFATSLNLAAPPLGRCP ANAPCWSLCNSFLGREAE
7126	15177A	7805	3	303	GRPPALIIDSRSRSPSPASPPTQ*CRPPSFPPG APPRLWLAPPFCPPPPPHGVPFPKAR RGAALGLTRVLPSPGSAVRSPGPGPGS ACDKVFRTTSR
7127	15178A	7806	190	389	RRYTSHLLACLRQGLAFSPRLECGKGIR AHCSLQLYGSDDPPT*APQTAGTKQHNQ RIACQCNADN
7128	15179A	7807	3	271	FPLRQSHSVTRLECTGAI*AHCNLCLPGS SDSPASAS*VAGITGMCHHARLJFVLVE TGFHHVQQA VLELL/NLMICPPQPKVVLG LOA
7129	15180A	7808	610	923	FVLSSEEAEFFFFFTETES/HLLSPRLECCG MMSAHCNLRLPGSSDSPASAS*VAGITG GHHPAQLFVAF/MYQPGFCHVGQAGQQ LLA*VICLPOPCKVVLGITGA
7130	15181A	7809	487	796	LSIFLFFFEGRGAJAVANVSLNFGPSKCPP PSLSKEPGTTGAAPPREIFFPPKKTRLGFA LHPGSPPPPGPWAPLWSKGEKVGILKHH KVGRGRGFSPVSPPF*KPPPSLSEKPGTT GAAPPREIFFPPKKTRLGFAHLPGSPPPG PWAPLWSKGEKVGILKKHKVGRGRGFS PVSPPF
7131	15182A	781	595	1060	ARFLPKYQSPPTGPSPFNQFLSLGAMCV LPRPNFHSLAVRSPVTPGPGAPLVPGKE* EGLGVTSQSRPDCPSPMSGTPCRS*LRP AAGRCGSPLLGGCFWTVTHPLRTRKAAGC TLSWAQQPVLPVGGEGRPCASPVAVL GFSPCALCHLDPPVK
7132	15183A	7810	1	340	GTSQVLTLTIAEV**NLG*VGCK*CKHTE AKRMPCAEDYLSVVAHEQICVAHENTPVS DRVPIRCPESLAIRLPCFSALEVDETYGD* EYNAEAFTLHADICTLSEKERPIKKQ
7133	15184A	7811	3	337	IESSLHQVESMHAGAGNAKKNWQRIQE FFAFTHPKLKDYLEGTNLVPAADNQAE WTDVQKKIPWNRSVSDLDLLELLFQDR AARLGKSIISRLIRCGPSLHSRKPNTFR G
7134	15185A	7812	3	926	YGEENLTKSICTFLAVLSHLDIITONIPEK KLILKQALIVLVQLWCNFNHFNSVRLYALV ALKLWTVCVKVLVSEEFDALTPVIESSL HQVESMHAGAGNAKKNWQRIQEHPFFAT FHPLKDYCLETFYILPRLSGLIEDEWITID KFTRFTDVPLAAGFQWYLSQTOQLSKLKP GDWSQSDIGTNI.VEADNQAEWTIDVQK KIPWNSRVSSDLLELLFQDRAARLIGKSI SRLIVVASLIDKPTNLGGLCRTEVFGAS VUVVGSQLCISDKQFQHLSVSAEQWLPL VEVKPPOLIDYLQQQKTEGYTH

7135	15186A	7813	3	360 ATCSSDOSVKVWWDKSESQGDWHCTASW KTHSGSVWRVTWAHPEFGOVLAFCTFD RSSAVWDEILSESRDNL*GHTHWVKRTT LEDSIVSATCV*SFSLSHVGIMLLSCGTFPP ACICGVFP
7136	15187A	7814	9	305 SHLRLSROQNRLNPRGGCNQPRSGHC TPAWATRAKLHLKKOTNKMNLANIQQH IKKVIHHYQVGFTPGM0G*PNICKSVSVI YHNRITTHKNVAAA
7137	15188A	7815	3	217 AASTMPMSFEWQRQ*RFPPFYTLQPVN TRQQLTA*CSLVLISLCRLHKQSSMTLIK TRLTSDSITVMLDC
7138	15189A	7816	15	335 QHFWERFHVTKDRINTVERQETDWKIFA TYLMKVV*ISRKCYNSYLKVRKKQLNR KWAKEKNKOSQKKKQSGQ*TKTVQPO* NKRNNAN*RYYLSPLISLAKSNKLNY
7139	15190A	7817	1	331 GLIEILVIYVSDTPVK*DVSDFEQ*AYG KIDGGNDVCDLQSSEGNTKMKNNNEEM MIGEAMDETGHDGEGENEGISTKTSKPD EAETNMLIAEMDTFVCDTVEVMSTEG
7140	15191C	7818	51	200 MSTPXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX*
7141	15192A	7819	3	219 MLAGGSRTPELR*STHCLPKCWDYRA HNAQPFITLN*RSETTRRSL*F*IMWPLLE FLGPPLLESQQGCTA
7142	15193A	782	71	237 EQPGMVHTTCNPSTLGRRGGWIT*DOEF KTSLANMVVKPCLCWRYKKLAGHGGAC L
7143	15194A	7820	1	358 VHCLVPDLLQSNNNCPYWGVMDKYAA EALLEKGPEGTFLLRDSAQEDYLFVSFSR RYSRSLHARIEORRNHFNSFDAHD*PVHS PDITGLLEHYKDPSA*MIFEPPLSTPLIRT FFCFL
7144	15195A	7821	260	481 LILKFW*NHKIPQIAKTIILSKENKAGGITL PDAKISCKAVVTQTKALYWHNTNRHIEQW NRIANTEINPNICNQLI
7145	15196A	7822	1	306 VKAKAKKLQLQIPIQLELLYCSYDMQFED FARHAMDYFPKIENNLSRMDHMVSSF CIENWHQLESLSSLILHNMPHYEEDEEFE GLRLDMVQ*RLTSCSDAG
7146	15197A	7823	3	396 SSSLSSSSSVSIFGFGTFSAVSSSIPDG GLALAFSSSLGSTFSPP*SHSSSSPPVPP LSSDTRRSTSPADMAAPSAT*TRRSTAPS NPFTSLAAPPREKGGNPPTNERRKLETP PGRRRQROR
7147	15198A	7824	3	344 HEHECYAKVLYELKPVGEEPQNVSKON CDLFEQLGQYEF*NALLVRYTAKNVQPGT TPALGOVRLNLRKVVSSKCKKHPEAKTM PCAEDYLSVILNQLCALHDRSAVSDRVS RCWT
7148	15199A	7825	1	413 RAGYRQKWGSLATVIGQLGLPSGEGLV WPQRRREGHNAHCSCEVLSDLHVIHQ NRAHNRPRCGGSSLSELKFAPLAQPGR QSKTLSQQKKQTTKNTKQPGSVA HACNPSTLGG*GRQITLPSGVRDQPGOH
7149	15200A	7826	37	363 ASDWNQDRARGRGQGGCETRDSSEQSQ GTNGQPPAEASKDSWSSGGKMAR*APSP QROKAGYGPSPSPQAPASPMRSLSGPQF QEPPQALFPLLEVPIPSPHTRNKMARA
7150	15201A	7827	3	354 HERAFLNNNSCFL*AFDPYQCDDRYLFKIV TDVYYTIPYVLIYIYI*APLPLLLQLTHTHIF LSLFFL*VNIYALVYLVSTALPLSLFISS PRYSLCLFFHFLSMLFLSSLSMYSCHY
7151	15202A	7828	2	269 ARVPLKGVQEQUEVRHEGEVTKPEKEK GEETIRENGKLIVVSDSCGRVYVSGKIIY PM*AYNDGLILERYQIMPIDIIVSYVFIMI

					CLD
7152	15203	A	7829	2	350 KDIRVGHQRNQNALPPQASPTVAPGQPT ALPPTGHSGPTMGWPSRLSQLSLITAPTS ASPTVVKLPSGACWPLSSTFASSPLSLVQ *P*NSDSDHATSAMAPSSESRECLSPWAR
7153	15204	A	783	236	404 EDGHHSGLHSQQKQPAWSMVTHTCN PNTLGGRRGWIT*GQEFTSLTNMEKPC L
7154	15205	A	7830	2	376 SHCLEPKDIRVGHQRNQNALPPQASPTV APGQPTALPPGTGHSGPTMGWPSRLYQLS LITAPTSASPTVVKLPSGACWPLSSTFAS SPLSLVQ*P*NSDSDHATSAMAPSSESRE CLSPWPAPRRA
7155	15206	A	7831	176	379 SVTDHPPIYNCNLSPSPNPNGPSDSDPVLVF VMMDYLLP*CIVICCFLSDFPHCSPIT'V GGSFFGIN
7156	15207	A	7832	1	344 NSGRVGSGNLISPLPPGPGPGRPLEEATP VLLSQGIPEREDSFNRNLRTDLYIHQLKS* DSPEISSLCCQGEETAPRHSDKHNS*NAAS EGKGCGFPSTPMEVIAASHDEEDVIHS
7157	15208	A	7833	355	535 PNRPIΤGEVΙΤΚΝΤΚΣLRPDΓFTDFC *TFKEGFΠΙΤLLΚΤVΚΕGLHPTFLYEASIT L
7158	15209	A	7834	61	250 RSRLCAPVRESHTYLIMPGLCC*FFLYI FFGLFFSVVFCLLSFYSPFFSVSSVSV*F WVF
7159	15210	A	7835	3	66 DAWEKKICETEDWLFΕΙΗHQRISSSRMKR NKESLQDV*NTIKRTNIRJIGVΙKEKREKG RKL*EIMAENSPNLGKDMSIQVYEAQRS PYRHSKKTSPKHMIIKLSKAJSRR*IRG
7160	15211	A	7836	3	146 HMVAGAVAGILEHCVMYΠΙDCVKTRMQ SLOPDPAARYRNVLEALWRΙΙΤΕGLWR PMRGLNVSASCAGSAYALYFACSD*LΤQ LPΑΙΑΜCWRPSGGL
7161	15212	A	7837	2	329 VASGRKNLLSKVΤGLEVPEGSTDPRPC SGROSNLPPVTSPNPNSQRNTPPTTRO MATL*EALHGSHLPPGRERAERTCTSSPGPR TTRPQVSDRRAQSPTSYYGVPHΡ
7162	15213	A	7838	2	356 EAGAHT*TMNKQRLLKETVDDTVEVSD FTVRSRNAHEAFNTAFTTLAACASIG*V LLYLTLTCPC*CKTKRQNMMHLHQSNAN SSILRPGPASADASERNACARAKRAL LEPLKD
7163	15214	A	7839	3	264 KNVHHTHOGILYSHIKEQD*LGVVAHT CNPSTLGGRRGWIT*GQEFTSLTNMVK PCLY
7164	15215	A	784	2737	2915 KNVHHTHOGILYSHIKEQD*LGVVAHT CNPSTLGGRRGWIT*GQEFTSLTNMVK PCLY
7165	15216	A	7840	42	226 LQLEAEEQRKQKKRQSVSGLHRYLHLL DGΝΕΝΥΡCLVDAΔGDVΙSFFPPTINSEKTK VKKTTSDLFLEVTSATSLQICKDVMDALI LKMAEMKKYTLENKEEGSLSDTEADAV SGQLPDFTTNPASAGKDGPSSLVVEQVRV VDLEGSLKVVYPSKADLATAAPPHTV VR
7166	15217	A	7841	1	507 PILVYRPDVDP*VAKYDYSFRNYT*GPLL DRVFTTY*LMHTHQTVDFIRSRAHQFGG FSYOKMFTVMEVEDILLDGLMDESDFDLN FLKSPHA*KIAY
7167	15218	A	7842	51	340 PILVYRPDVDP*VAKYDYSFRNYT*GPLL DRVFTTY*LMHTHQTVDFIRSRAHQFGG FSYOKMFTVMEVEDILLDGLMDESDFDLN FLKSPHA*KIAY

7168	15219A	7843	44	1352	KMLYKNFIMQSOELTALWEAKVHPAML GLDELGRSGCGHCTQADLRFGDAAGRD PGQDNDRNTAEPAPPPPRPVRMAAAAL RAPAQSSVTEDVAVNFSLEWEWSLJNEA QCCLYHDVVMLETTLISLISKRQJLHTTR ERPYECIECGKAFAEKSSLINHRKVHSGA KRYECNECGKSFASTTSLLKHRLVHTGERP YECVECGKSFRRSSSLQHQRVHTRERP YECSECCKSFLSRNSLHHHQRVHTGERH ECGGCCKSFSRKSSLIHHQRVHTGERPYE CSDCGKSFAENSSLIKHLRVHTGERP IDCCGKSFRHSSSFRIHQRVHTGMRPVYK* SKFWKFSCPGFLLQQGRVHTGSRCYEC DKWGIFTS*NASFT*KSATTEEVPFECN ECEKAFLSPSLVT
7169	15220A	7844	2	353	NLLYQFWIHTETVINNLGPYLEIILNTRSHH RVHDGRNRNYCIDKNEYAVGLIWWDKSFGT FEAEENEKKVYYGLTHPINTFEPKVVQFHIL FSIWTITFWATPGFFNKFSVIFKGP*WPGP KP
7170	15221A	7845	3	386	TVRVCACDHGNMQSCHAEALIHAGL STGALVAILLCIVILLETVVLFAALRRQR KKEPLIISKEDEDIDNIVRYNDEGGGEEDTQ AIDIRTLMMNPVPPDTHLRRRCFAP*TSLYY HRAATPTRSCYH
7171	15222A	7846	151	352	YCCYYIFVLFIP*SSCGLTJIFTICIIHFGSI SFLFLTTIVFSIIIWTFKFRLLYSIIHFSYL C
7172	15223A	7847	2	265	VKPSPLTGTALSALLMTSGLAM*FHHS JTLILGLLTNTTPPVQKGRLRVGILFTSE/V FFFAGFF*AFYIPIA*AYPQLGTAQQDT
7173	15224A	7848	1	156	GIRREAHYIVVKPSPLTGTALSALLMTSG LAM*PHFHLLKKKKKGSSFIAVG
7174	15225C	7849	512	778	MTSGLSLHVDFTSNSITLPHTRAYXTNTL NHIPMMARMLTRKAHTKGHHTRCSK KAFRYGDKSYLTSGSFSSQQFILEPFLP LQA*
7175	15226A	785	361	710	DLFWLFDMKFLDTYTLPRLNQKEVK
7176	15227A	7850	15	613	LKTHLLFQVSVGQESRCGLAKSSGKS LTRVKVRGQPRLWCHLKAOLGKDLLLS SLTWLLAACGSSPVVGLWASAPGGLLLAS HHPFRSATWVFHKVAHNTAAFGMSITGK QEG*RDKITAKQKFASVSYNLISEVTTIHF PYSIYEKQVTRSSPHTKERDSPRG*LSEG KDHWEFPQKLPATDVIALFYENKIHQT YIHL
7177	15228A	7851	66	355	KSMTDGHQJTVTNIROLPARTLYTHWPR EFSP*SPPLERMHTRGARREARQKAPRIR DKRRGKSRSRVHCLGEELANGGGWDRIRW GKGRQGDSGRV
7178	15229A	7852	3	358	HASAHASGQGDDQLERDHEN*DRFVRQ VVGINNYRISSEESGHPYNIPGKIFHDCAD LDTSEH*LCKCDSFDTLKPTINLVSYNR NFA*TNIIDENFRCGKSPSYSSCYSKHEEL HNGM
7179	15230A	7853	79	413	LSKGTGRKRDGLTLPAPKAKTDPAAAP QGQPGVGVRSSPPCPG/QREQQGSAGSP GMWMGGCPVVS*PLKGQNQPSFSSLLGG SKGSFFSPPDPAVAAGRVRGEERQVR E
7180	15231A	7854	171	173	LSAEACLSFPSPLPLSSLGVSGCPHGGLG PAHPSPALPQPGCIFEAAWPPLALT*PLSS PLTPAPGHCIRRGEEGASAAFPGLCLGT GLVLSFEDDHRLQDGOAHTOSQPGASP QTLCCFRGLGHAGELLPTPTVQPGFLPE SASKWPQLFGPRILPGPKGSPTTKAWWP GVCGOQQLPLVKGHGPQ*PSASGRSRCEV SVBSCPVA/PI/GWC/C1/APACGP/SOU/WD

					SVPSCPVVPLGWGCLAPAGCRSQHWRD
7181	15232 A	7855	27	263	FHCFIGSNF*VANRSSLLLDFSGVGLLKCKSFIFFNNAIJHYCLMMVCEYDSLFLSYMFLLIFFYFYIPIYLLFIHPY
7182	15233 A	7856	92	354	VLNISI*SGNQGKSYANVYRRLYDPPIKAYAEAYTP*NVNSTNLETKSPKTIQKFPPEDREFKNDFFEKTKNGDRETGAHFPLLFLV
7183	15234 A	7857	464	2848	GETGMSTALTHITVAMRCPMGLGGGGPTYGPPQPGHDPDVHIMQHHVLPQARLG SIAEIDLGVPPPVMEKTFKEFLSSLDSDVDETEAVKRYNDYKLDFRRQMQDQFFLAHKDEEWFRSKYIHPDEVGKRQQEARGLQNRRLRVFLSLMETGWEDNLLIDIKADAIVKMELDAVIKMEGOTENDRLILEQEEEEEEQAGKPGEPSKKEEGRAGAGLJGDGERKTNDKDEKKEDGKQQAENDSSNDKTKKS EGDGDKEEKKEDESEKEAKSSKKRNRKHSGDDDSFDEGSVSESESSESQAAEKEEAEALKKEKEKPKEEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRABEIIISLCK RYFGFMVRALSEPOPERFRFRKGWVTFDRSVNIKEICWNLNQNLRLRECELSPGVNWDLTRVRVNINGITQHQIVRNNDIKLAALKIHTLDDRDTQLWASEPGTPIPFTSLPSQNPI LKNITDYLIEEVSAEEEEEELLGSSGGAPPEEPKKEGNPAEINVERDEKLKVLDKLLLYL RIVHISLDYYNTCEYNEDEMENPNRGHHRVRGPMPNRISSHGEVLEWQKTFEEKLTPLLSVRESLSEEEAQKMGRKDPEQEVEKF VTSNTQELGDKDWLCPGKFKFCGPEFARKHFNKHAEKIEEVKEVAFFNNFLTD AKRPALPEIKAOPPGPQOILPPGTLPGPLPYPHQTPOGLMPYQQPRTTILGYGAGAVERPAVPTGGPPVYPHAPYAGAGRNYDAFRG QGGYPGKPRNRNMVRGDPRAIVEYRDLDAPDDVDF

7184	15235	A	7858	1073	3541	GETGMSTALTHITVAMRCPMGLGGGGP TYGPPQWGHDPDVHMQHHVLPJQARLG SIAEIDLGVPPPVMMKTFKEFLSLDDSV ETEAVKRYNDYKLDFRRQQMQDFFLAH KDEEWFRSKYHDPDEVGKRRQEARGAL QNRLRVFLSLMETGWFDNLLLDIDKAD AIVKMLDAAVIKMEGGTENDLRLILEQEE EEEQAQKPGEPSSKEERAGAGLGDGE RKTNDKDEEKEDGKQAENDSSNDDTK KSEGDDSFDEGSVSESESSESQAAEEE KEEAEEALKKEEKPKEEEWKPKDAAG LECKPRPLHKTCSLFLMRNAPINSRAEII LCKRYPGMFMRVALSEPOPERRFRRRGWV TFDRSVNIKEICWNLNQNRGARSILNRWC SRGKGRLRAAVSLASGLRECELSPGVNRD LTRVRVRNINGITQHQKQVQRNDIKLAAKLI HTLDDRRTQLWASEPGTPLPTSLSQPONPI LKNITDYLIEEVSAAEELLLGSSGGAPPEE PPKEGNPAEINVERDEKLIKVLKDILLYL RIVHSLDYYNTCEYPNEDEMPNRCGIJIH VRGPMPNPRISSHGEVLEWQKTFEEKLT LLSVRESLSEEEAQKMGRKDPEQVEKF VTSNTQELGDKDWLCPISGKFKGPFV RKHFNKHAEKIEVVKVEAFFNNFLTD AKRPALPEIKPAQPPGPAQIIHVYVPRVVL PPGLTPGLPYPHOTPOGLMPYQOPRPIL GYGVPTGGPPYVPHAPYAGGRGNYDAFR GOGGYVPKGPRNRMVRGDPRRAIVEYRDL DAPDDVDFF
7185	15236	B	7859	145	226	MAYNCSEMLRKSSWNGCAIANEGDCHL EATSCSSTSPMDMLGEFRHCESSILLAST AX*
7186	15237	A	786	2	424	
7187	15238	A	7860	136	1559	ILTMRREIVHIQAGQCGNQIGAKFWEVISD EHGIDPTGTGHGDSLDLQDRISVYVYNEA TGKGVVPRAILVDLEPGTMDSVRSGFPG QIRFPDNFVGQSAGGNWAKGHYTEG AELVDSVLDVVRKAEASCDCDLQGFQLTH SLGGGTG/SPGMGTILISKIREEFYPRDRIM NTFSVVPSPKVSDTVVEPYNATLSVVAH QLVENTDTEYCIDNEALYDIFCRTLKLT PTVYGLNHLVSIATMSGVITTCRLRPG QLNADLRKLVS/VNM/VPPPLRHFFMPG FAPLIQFVESQYVRGSHKCRELTQQVVSF DAKEH*WAACGPATGRYLTVA^AAFR GRMSMSKEVDEQMLNVQNKN*QTLWE WFPQOCRSRTACLTSQPRGRSPRWAVIDLS LGNRHSISRELFOSGIFGSSFTWPFCFRK AFL/FHW/YTQGEHGHTEMGVSTE*EA TLNDLRL*SIKQLPRMPTQEEEEEEDFGEEA EEA
7188	15239	A	7861	2	304	ARGCLPLGYTGLCKCETDIDBCSPLCLNN GVCKDLVGEFICECPSGYTGQRCEENINE CSSPWLNLKGICVGDGVVCYCITFV*GFCI FKFSCSSCPLYTI
7189	15240	A	7862	1	345	GTSGTSRFL*DVLQMNDFGTRWRFYAT VIYQKPOLKSLLIIE*RFTWVLGTDGTQ TKEEKDPLRKTLVYVAPLLVLGSDVL BALSGAAPLRLFLKDARDQARIGRAERT VL
7190	15241	A	7863	2	343	VRSAYPRLLENSLAGQRRIHHLCPLPP AGGARAPOPQPOPQOLLGARPGPGRCRM RRRPQAPRAGRGAALARAL*PLSSTA RGACPGAAPSDSPEDPASDHGHSPRLGG RC

7191	15242	A	7864	1	338	QIDEIVTETLLTEAERGAKVYLTGTYFNL TQAYMDLVLGTRKAEYQILLASPEVNQGF GAKVAGAIPAAAYVHIERQFFNDECSEL* QSRAVQLSEWYWRCSGRSLSMEFVRHDI
7192	15243	A	7865	174	361	
7193	15244	A	7866	1	1259	VRCPVRNSRVDPRVRMMAAVFLVTLYE YSPFLYIAVVFICFIVITGLVLGFWGD VPVILRNSEETOFSTRVFKKQMRQVKNP FGLEITNPSSASITTGITLTTDCELDSSLTC YWGCsvQKLYEALQKHVYCPRISTPQA LEDALYSEYLQEQYFILSSDPISTEN*T SYGSVANLIIIGILEACCLLNQNKHSPCI RTCSVYRISVGSTGACFRLIYPLALIURL LMKDVKPLTV*SFLGY*KHVYCFRISTPQA LEDALWSEYLQEQHFIKKDSKEEYJCQ LPRDTNIDDFGTVPRSRYPVLALLTLSD DREIYDHMSVSVIHIPDRITYKLSCRILY QYLLAQAGQFHDLKLQFLMSANNNFTPS NNSSEEKNTDRSLEKVGLSESEVEPSE ENSKDCVVCCQNGTVNW
7194	15245	A	7867	106	387	
7195	15246	A	7868	2	766	
7196	15247	A	7869	149	420	CGTDKTFWSCTVRENLSYSEELLSRR QICKKNNDPPGDRD*FDYSRSDYEHSSRR GRSYDSSMESRNDRERERERDTR KRSRKSP
7197	15248	A	787	1	462	
7198	15249	A	7870	1	443	QDQRSSRDNGPDGMEPEGVIESWNNEIV DSFDMMNLESILLRGYIAYGFEKPSAIQO RAILPCIKGY/DCDLYETLTITQAVIFINTR RKDWLTEKMHDFTVSAHMGDMQKERDVIM KERDVMIREFRSGSSRVLITTDLLARGID VQVSL
7199	15250	A	7871	2	363	ELDTLCDLYEP*PSPIIIFINTRK/WDWL EKMHDFTVSAHMGDMQKERDVIMREFRS REFRSGSRVLITTDLLRIGRRGGFRGKG VAINVTEEDKRTLRIETFYNTSIEEMP LNADLI
7200	15251	A	7872	3	449	NLQEWKLDLTLCDLYETLTITQAVIFINTR RKDWLTEKMHDFTVSAHMGDMQKERDVIM REFRSGSRVLITTDLLRIGRRGGFRGKG LITTDLLVSRCGN**QRQKGGSKVIPS HQLCSKG
7201	15252	A	7873	236	533	
7202	15253	A	7874	1	366	AEIRDRSPCAGELHVEREEWKLDLTLCDLY ETLTITQAVIFINTRK/WDWLTEKMHDFTV SAHMGDMQKERDVIMREFRS SRVLITTDLLVSRCGN**QRQKGGSKVIPS PRGHQCLCSKG
7203	15254	A	7875	5	1285	FLRIMSAQDSSRSRDNPGDMEPEGVIES NWNEIVDSFDMMNLESILLRGYIAYGFE KPSAIQQRALPCIKGYDVIQAQOSGTGK TATFAISILQKIELDLKATQALVLPATREL AQQIQKVVVALGDMGASCHACIUGITN VRAEVQKLQMEAAPHIIVGTPGRVFDMLY RRYLAPKSIIRMLVLINEADEMLSRGFKD QYIDIFQKULNSNTQVWVLSATMPFDWV EVTKKFMRGPURLVKKEELTLEGURQF LHQWPNEEEEWKLDI*CDLYETLTITQ AVFINTRRK/VWDWPHPRKMHARDFT VSIRHAMGDMGPKGNETVIMEGSFRSGS *QSF*LPT*PCWARGIDVPARFSLVINYD LPTNRENYIHRUUGSTVDRFGRKGVADNM VTEEDKRALRTLGAISYNTSIEEMPLNV ADLI

7204	15255	A	7876	3	378MDTTPLSYSES*SDEYLVTNM*LQDAFC RGLVKPGLNVLLKGFINAVIDVNGLKQC LA*FKRYLECL*RLDVTLCPPV*IGGSDA PLPHINKDHKAADP*DYFQR*MSFYRQA HAAMLAVLPRJHH
7205	15256	A	7877	2	397RESESCAAADTPALETTSFHGDWEHIEVF NRDLGSTYPDDAL*MEDVDFEEEEEYEE* GVD*GWVLYPQEGVIGNMEGPDYS*VTF ALHSSSVYRVSLDPKTYTTLAVTGYYD ALFWVWLITYG*LLFE*ASHE
7206	15257	A	7878	3	399NSQVLLDPSIQLSKITENEYCITELSGLLK REQSTVNASNLNDEEARLKAYLENSE IDSLKTSNPIDL*EASISQAGSIN*SRF*SS GMNKSYDVIRDNFTNGS GDRILLTAANVI LAWCRLLYGLMRQN
7207	15258	A	7879	1	424PVLRVARERSLPGPQEGPHGRASEASPL APSIASPPGPPALASAHIMGSQALRSPT PW*SPWDPAPPDLVLFSPWFQPPGPHASA TIP*RSPLGLQTPOAFGSWAHPVPATPQA SQLPAPHTVET*ASS*LAMPVPETP
7208	15259	A	788	24	452APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYWPWTQRFDSFGNLSSASAIMGN PKVKAHGGKVKVLTSLDIAHKLDDLGKTF AQLSELHCDKLHVDPENFKLGNVLTVT LAHFGEKFTEPVQASWQKMTGVASA LSSRYH
7209	15260	A	7880	156	312LFSLACRYHVYPTCRNTSGILGFTVSVT NAIFIS*LSFSYYIYFLYNFG
7210	15261	A	7881	15	394FGCLLQGRRLPKSHSPWQGPBAGSGRPAQ GHKHNR*RGQPNPSLNSHPATPPWWPGIK CPLPRAGPSLSSLPGRLVLCARPEFFLHG RGLEPSASLPSALAPSLRGLKGTERSR LKADQAWGGWKE
7211	15262	A	7882	2	102NKLIJKTNSRKK*KIE**RDNNQSNNNNKN HNK
7212	15263	A	7883	3	397NFLYTFLYFPFNFV*SAHCF*NQKKKNKY FLRECKCLNCFCPHLY*VAFYVYPIFSNLS GC*YLPSCSIFYVEFILSHPIFLPLLFFLCFLS FSFLPFFSLFCFPFLAFLFHPSFILLDSSA CLCJCSCFFH
7213	15264	A	7884	190	339DGKGLLQVCLPLQDVKYKIGG GTVPVGR VETOVLKPGMVVNFAPVNNTT
7214	15265	A	7885	377	1073LQGHRLRTLGAVLIVAAVGGEFESWYSPR MGRPESMPLFLAYTLGVKRLIVGVNKM DSS*PPYSWQKRYEEVIEKESTYIKKIGYN PDTVAFVPISGWNGNDNMLEPSANMPWF KGWKVTRKDGNASGTTLLEAL DCUJLP TRPT*QSPCGLPSRDRVYKIGG ILGTVP VGPSPRLGVLKPGMGGSPLAPVNVTIE VKICSEMHHRF*VEALSWGDNVGLSM FGULLFCSK
7215	15266	A	7886	2	415SVGDPCPSTASVDQCTTVP*PMEGPILLY RRCIEGPGGIFLWDQPSPQHPGATPST GEPPFPVHVQDLSHQPAVAVVAALNN HKPPVRS*PSATPEAPT*FSKCDLDEE LSLLRYCHAFSEC*HDIRPSHHP
7216	15267	A	7887	1	360TERFGM*GGEAVCLYEEPVSELLRRCGN CTRESWVVSFYLSDIHELLSPTNYHFLS SPEAGGLCKAQITAIIFQQGDIFFVFDLET SAVRPFWWVQVEAIPVDYLPCSFVMIPL LYCSF
7217	15268	A	7888	152	378WEGGGSGTILARRFWDLQAYRPHAQVP GFLR*SHLMAGVGHAEATDLTALTMII.T PEAWQLHTILYLSGLLAMLP
7218	15269	A	7889	302	564YWLFYDFMIAEKILNGYFCCCC*DRSCP VAQAGELWHERGSLQPRPPGVKOCSYF SLSSSWDRRHVPVPHLANF*TFCCRDRVSP VLP

7219	15270	A	789	38	485	APSPDAIMGHFTTEEDKATITISLWGKVNV EVADAGGETLGRLLVVYWPWTQRFFD&SFGN LSSASA\MGNPVKVKAHGKKVTLTSGLRC HRSSTWDDLGKTFQAPDWNCTCDKLHV DPAENFKLLGKCCW*PVFGNPIFGKEFTP EGAELPGQKDQ
7220	15271	A	7890	1282	4603	GSLPCLEHVSLLNNPLSIIIPDRTKVLQAQ FGERASEVCLDDTVTTEKELDTVVEVILKA IQKAKEVKSKLSNPEKKGEDSRSLAAP CIRPSSPPPTVAPASASLUPQFILSNQGIMP VQEALASSLSTDSTLPEHOPIAQGCSD SLESIPAGQAASDDLRLDVPGAVGGA HAEPEVQVPGSGQIULPFTCIGYTATN QDFIQLRSLTRQAIERQLPAWIEAANQR EEGGQEQQEEDEEEEEEEDVAE
7221	15272	A	7891	1	286	SPTIVPASASLPQFILSNQGILGDE*VIL VS*ACILLARPARKRGCGAVPSGAERADT QERTTPARAPGDAELGVRSWENSSTRCF KSQKNIPT
7222	15273	A	7892	3	417	PPPLWVFNQDPHVESKGLAAGRPVPSLTSQ GRTQFRGSAPPKDPDLPRTGPSANRRVP HTFOPDISPGSPKPPS*DRPHPNPSLSP LVSHSVHNQAGRWAQVQATARERKSDT KSIWLWRWRRLKRTRNSNLTYLTHG
7223	15274	A	7893	2	236	KKSNLRMLAEGHGSHL*SQLCRLRQEN HLSIGGGCSESTSHHCTPAWGTE*DFVS BKKKKLTGWPDPSGRIKWWC
7224	15275	A	7894	3	254	LECGNTISAHCNLRLMVGS*FSRLSLPSS *DYRPRPLR PANFCIL VEMGFHVVGAG LKLQTSDLPLSLPKCWDRRAHPLA
7225	15276	A	7895	1	185	RQSALSPRLECSGAIAHCSLEPLGLROL CCLSLPKC*DYRHEPLS LACLFLFYPPHE LT
7226	15277	A	7896	1	182	KLVGLEPVSTYSIRVSAFTITVGNNGNQFSN VVKFTTQESG*IQFLSLKCFLYLTPFFSF S
7227	15278	A	7897	4	329	AGEGGLQLALILRDGAWPQPSSGD*QVKG LEPLTPAPAGSSQQGPFGPPIASPVGOS KTDTATTITKVGPVGGGQAPMHQQLPP SPGDPAAEDAHTWGERSLSGMKGK
7228	15279	A	7898	115	408	HWKERGSLYPA*TQGSACVLPGOGHILP RPQA TPPTTAHLVPPQHCRRGPAAPAP* QGMSTPTTATLPSRLQGRLQLPMGAPSG QGPWLYCRGECPA
7229	15280	C	7899	128	253	MNSPDWELWQDNNSPDSCVLI PRTCDH AASRGRDSSGVIE*
7230	15281	A	79	421	899	IASLFLIVKEEVSQTIAWKKKCDEYIP GTTSLOMSVFLNSNAIMGSGILGLAFAL ANTGILLFLVLLTSVTLLSIYNSINLLICSK ETGCMVYEKLGQEVFGPQGKPVIFGAT SLQNTGKKNMFLFT*LEYTHHTSFFSK WLFVRLLLLSSRSEINLLFI
7231	15282	C	790	128	274	
7232	15283	A	7900	856	1071	SFAFLVAQAGVQWHDLGSLQPLPPRFK*F SHLSLPSWDFRCPPEPYWLIFVFLVETGF HHVLDQAGLELLTSGD
7233	15284	A	7901	87	395	RSGGGVPPRNPPPLGGRGGFPQGPFGQI TLSKGKPLFLLKSNQFPG*WAPPKLKPPF KG*TKKIFI TLEGVVPINGNPPPPPGG KNTFSKKKKKKKK
7234	15285	A	7902	28	403	GGTIGNCVVPATVPGSPGVPAVGQGP GPLVLT*RTSPETCPPLGVITGSLCLAPY HSLSGGGHGLP*GTPREAG*REGGNSQL QLPNPKPLPSRPDEPTWSPSSQGEEILRR RKVRCDLKSLT

7235	15286	A	7904	1	609 SHIKTNVQQCVCVCGPGDWYLKMLQC CKCKQWPHEACVQCLQPKPLFGDRFYF FICSVCSSGPDYULKRLPLQWVDIAHLCI YNLSVIHKKKYFDSELEMITY\NEWD RLHPGEADTPKSERYEHLVLEALNDYK TMFMSGKEIKKKHKLFLGLRIRVPVPPNN VAFKAEEKEPEGTSHIEFKLGRKASKPIS DSREVSNGI
7236	15287	A	7905	440	608 CVKLFLDTSQQLADTPKSERYEHLVLEALN DYKTM*VDFLYVSL*GRHLVSIIRRNGIV
7237	15288	A	7906	49	796 SHIFYFTITWISSLVNEVC*SSPIFLMNLQ VVLVYFWLLL,YELLCRIFSHFVVCLFTM FINIVTF*F*YLQHVFVLYG*LOFFYGVK NIVNIILLLAH*FLSHFGPIPLGTIPN\Y EVIFILL*G*SVPAFLIEKKQOKTFLFL LL*SAFSVVVWQYMQRSFMGSLLYWTF SCANVIISLJHYMFIMKKIFD*YQSPTFSSL FINSFLFLVLCSSLYIEJAYHVSLSKAE HIENLIGVAMNL
7238	15289	A	7907	178	565 KGKATCPESQDKRRGNLDMEKLYSE NEGMASNHGKMENE*OPDQQRKPQVTL YSGRQEVRKRKGDKRQGQNRR*GNV*R IKGKPESEGEAKEGKSEREGESEMEGGSE EREGKPEIEGKPESEGEPLE
7239	15290	A	7908	3	413 VTGVLVYLAVERLISGDYEIDGGTMLST SGCAEAENIIIMG*TLLHQSGHGHSGHTN Q*EEENPSVRAVFIHVIGDFMQSMGVLLA AYILYKFPEVKYVDPICITFVFSIURL.GTTL TILRDVILVLMEGIPQGVYVFTA
7240	15291	A	7909	119	427 LESLSHKRSSPRHVIRLSAKTKKSVLR AVRQKYQITYKRTPISLSDVCSAQTLQA RRDLGPTFCLLKENNNNQPIII.YPVK*SPIN EGKIVFFREISPERIC
7241	15292	B	791	72	524 LAPPGRIKRADALATRPSKVIRVRRGKR RPVPKGATLRKPVVHGTVNQLKFARSLOS VAEERAGRHRHGALRVLNSYVVGEDSTY QWITKPVVHKREMRGLTSAGRKSRLGKG KGHKFHHITGCLAGQLGEGAAILSSSTVA NISKVCKJH*
7242	15293	A	7910	13	235 DLINKISKAAGYKINTEKSVAFLYTNNSQ TEKEIKKAIPFTITTKNKTKYLGILNLTKEV *ELYQENFETLMKGJ
7243	15294	A	7911	39	141 LSIRGLNIIIKRQRL*DWIKQQDSTLCCP* EIH
7244	15295	A	7912	1	285 QQRPGPGLRPPIHPRGQDQLWLKGKGWQ AAQL*EGPSGGSRGRGVVERERGRRRKGR KGRA*RGTRKAGGERGRRETALASPLLRG HRSPOERPRPTL
7245	15296	A	7913	1	452 TAKITFFRNNAHSKHL*NVCKPVEETQR PPTLQEIJKQIDSNTREKNCLGMKLRE DGTYTGFIVKVLKLRRPGTVPAGIRPQSI YDAIKEANLAVTIDKRTSFYLP.LDAIKQ LHIISSTTVSEGIQGLVKKFNGVDNPQKV ALFKRIHK
7246	15297	A	7914	1	484 NVLCGNNOISDLGHIJLPEVCMAPEEKGD KDDQLNKETEDYLNLSLFEVGFLKVTEDSL SYEDNQDDDSDLQDLSPPEEASYSLQEN LPSDESCLSDLAKRIEIAEVVPTEGLV SILKKNRNDTVGDHPAQMQHKPSKRRVR FQEIDDSLDQESLGFGDGAL

7247	15298	A	7915	2	1121	HYYAIDRPFERVRILLYYTYSYVPSFPS YTKCCFEPLTIYFSSSLESKTCGLTESKSE SOHTVEPLGSSPPCCHQMDVQIDSPSLSV TAGKDHEMEEILCSAETALALHTQSSETA GSPSGDSSEDACEDDSRQLQAOTEACQ DVARIEGIAEDPKVFLSSKSSTEPLISPGC DRIPPALISEGKYSQAQRKELPLRLRAS EALPTDQLENNELNELQPDLTSDGKSP PQAQADSNGSENVLCGNNQISDLGILLPE VCMAPEEKGDKDQDNLKNETEDYLNSL KOCILKDTEDSLSYEDNQDDSDLLQDLS PEAEASYLQENLPSDESCLSLDDLLAKRIE AEVNOR*STIKSKMAFKKHIVYVLNIALFL
7248	15299	A	7916	2	390	SDSRETRVINVLDKDSVFCLYCKLFGECK NOVKNENGCKDWLHSHLISKHEESEM HINNSVKYSLKSDLKKNAIDAERRL YENEK*WCABAHHVITYLSCFLGMMIR NLTLRLRTSVLAIVSTVL
7249	15300	A	7917	1	240	KRGKEAPETSKITISTWRUPCRKRRRLSNR DFFPLSTGEELPETCGSCLRRGSGREN*D AETWPAQCPECESKAAVSTRPLF
7250	15301	A	7918	3	420	EPLSSPFCPP*NQSKIHPPPFIPLAPTWPHP HHFPPGPQPPPLSTGSHLVL*QPKPGA HEHLSGIPPSLAQNPTWVPPHGPGRSSPH SATRCPKICPRLLAPSTLLTPSNLTGP*PL LPGALPGLLGPBPENFTGCF
7251	15302	A	7919	2	127	RFWDVGRIALVS*ADSESRFQRLLSSTSS GOQDFENELVG
7252	15303	C	792	56	289	MNFINTFTYISGGGAGEYCAFSKLPGES HRIVWWNLWPFPFRPRLSACRCQPCQRH LPCALWELVLVNPTGCSRRISE*
7253	15304	A	7920	1	346	DSRSPPSPASPPTO*CRPSSFPGPAPPRLW LAPPFCPPPPPBYGYGPFPARKRRAALGL TRVLPPPGSAVRSSPGPGPSAWDKTLT MKQKKFGSVGWLWRELJRDCLSAELLSA
7254	15305	A	7921	184	291	
7255	15306	A	7922	481	716	VFFFFFFETECRSIAQAGV*CSRLRPPGSS DSRASVSRVAGIVGACHHAQLIFVFVVA MGFHHRVGEAGLEHLTSSDLP
7256	15307	A	7923	4	423	VARERRLPGPQEGPHGRAAGSASPLASI APSPPGPPALPASHLGSQALPSPETPW* PWDPPAPALALVSPWQOFPGPAPATP* PLGLQTPQAGPGSWAPPVPAATPQASGLPA PHVPETPWASS*LALPVPEIPPWDL
7257	15308	A	7924	3	436	GYLSEVVEENTPPKMEKEGLEIMGKKK GIOGHYNHNSCYLDSTLCLFAFSSVLDITVL LRPKENDVEYSETQELLRTIEVNPLRI YGVVCATIMKLRLKILEKVEAASGFSE EKD/PAGQKVQDCYFYQIFMEKNEKG VPTIQ
7258	15309	A	7925	3	187	VLAGLELEDECAGCTDGTFRGTRYFTICA LKKFLVKLKSICRPSRFAALLQPVSNQIE RCNSLAFGGYLSEVEENTPPKMEKEGL EIMIGKKKGHQGHYNHNSCYLDSTLCLFAF SSVLDITVLLRPEKENDVEYSETQELLRT TEIVNPLRI*YCSRPPIRLSAVTI
7259	15310	A	7926	4	343	KLEN*KMVLKEIKEDELNKQTDLFS*LQR LITVRMSLPLKLIYKFSAIPIQPA*FL*IKIII KCMRKGG-*TRIAETASSSSPSQSFILSPK LDHRRGKGTANCTPPWAIKGKLL
7260	15311	A	7927	1	531	FYDHADHAALKDEMTEY*VFLQIKRYLY HGRLLCKHDPDAALLAAYIIQAEIGNIDS G*HPEGYSSKFOFFPKHSEKLERKIAEH KTELSGOTPATSELNLRKAQTLETYGV DPIPKCDVSGNAAPLAAFTPPGFFVVLOGN KRVHFHKWNEVTKLKFEGKTFYLYVQSQK KKIGGSCP

7261	15312 A	7928	115	348	KSCLNIFGLKQTTSSLRWNRVKK*AHYT G*QOLIFNKGAKIHHWIKYNPANGCYWISI CKKVNLIDPYLIPYTIQNGS
7262	15313 A	7929	4	430	AWLSALNSSLPATWSCCPSLGASHKLQ WEATSPTVPPRAPSQVKCAACEPTPTPL CLFPQPPLRSLSQAQVLLTGHPG*GPLR RQEGLLRSKGQCARLTQPNSEGGAV S*TGRPGDGAVGEAAPETTRDCPTAPP AS
7263	15314 A	793	24	452	APSPDAMG/HSLWGKVNVNVEDAGGETLG RLLVYPWPWTQRFFDSFGNLSSA1MGN PKVKAHGGKVLTSLGDAIKHLDLKGTF AQSELHCDKLHVDPENFKLLGNGVLT LAHFGEFTPEVQASWQKMVTGVASA LSSRYH
7264	15315 A	7930	1	380	GTRLLVRYTPEKEPVWTPITFVEVGFDLG QVGPB*C*HPEAKRMPCAQDYLSSVVLN QLCVLYEKTLSDRDTKCCTESLVNRP CFSALEGDEAYDPQELNAETLTHADICT LESEKERQJYKQTVL
7265	15316 A	7931	2	388	NVQKSLSFLYITNNSSQVESQIRNAIPFTPA TKRIKYLGIPLTREVKGLYNNENYKTLLKE FREDPNWKWNFPCS WVGRINIIKMANLIS KAM*RFPRVHIIKIPGTFFTTELKGPKLFKI NOKRAQIPRATRA
7266	15317 A	7932	72	373	TSTLKKLEEKQTQSRRKEEIKPAEINAIEN KQIEKISKTKSCSFK*SIKITNP*LKQ*TKE K1*INNIKRNKRQGVTMMAFVAIKRISREYC Q*LYTNKFN
7267	15318 A	7933	2	259	KQWPAPPGPANPLPRTGSP*KGPHS DKAKPSPFPFFKKRQWGAPRSRSKARG KGQPKKGHLKGPLRVVNGV*RAPLNR TAA
7268	15319 A	7934	3	335	QIKPPRLRDTPHSFTFYHPVRRGLVVFFS APSPAKGEQLHTRTRJNVLGSHPRRLP RSS*SSHVRTRGSLGSVPARSTSYGPSR QWDLA CPTPEGVWRKTNNKPEAL
7269	15320 A	7935	37	281	GPSYTDPTPTYP*PLTLLTNPRTNSTLPP TLHPLSRPTPSSPPSTLPPSLVLRFFLKIQ SGKRRAYPEHFWGQNGERKV
7270	15321 A	7936	13	234	DLINKISKAAGYKINTEKSVAFALYTNSQ TEIKEKKAIPFTIITKNNKTLYGINLTKEV *ELYQENFETLMKGJ
7271	15322 A	7937	3	426	VLEELPSIVLFNNSSSVPAWQWLAIHVYHS HGMRMRAAQMCYIKTLQLASQRSSRWWA KSSLWRLALLALKGGMANISNDYWPS LVEQAETTEALKLCFCPLAVLLLALLQFK RKMVST*TLCLLERVVYHGPSPKFQJSN WPAV
7272	15323 A	7938	132	393	ETNSLFGPOVKRQGNDLG*LNPPPRGFK KFGSLTLRRSGNYRSPSPRVFGF*GKRGGL NWVAKGGLDLLS*NPNPPWPSQGARIM GES
7273	15324 C	7939	170	394	
7274	15325 A	794	38	604	APSPDA\MGHTEEDKATITSLWCKVN EDAGGETLGRLLVVWPWTQRFFDSFGN LSSASAINMGNPKVKAHGGKVLTSLG AIKHLDLKGTFQAQA*SELHCDKAAM WIPENFKLLGNVLVTRFGQSHFRQKNF TPEGCKASWAERWVTCWSWPVALFLQD TEAOLPMNAAELFKDKDAFILASNYZ
7275	15326 A	7940	107	379	PPFVAOLGGKGGNLG*LNPPPRG*RQFSS LGPPIGSNYGPPPPSRVIFGFLRKKGVS SPS PGPFQGIPDLKIGPFPNPKGLG*RGGPW PNO

7276	15327	A	7941	83	409 PEIISGFFFDOIHGIKLETPKRNFGNYPNT WKLNSNTLNDQGVIEGSSSLKWLKTN EKGNPNTYQL*DTAKAVLKGNLTAISAYI KNREKLQINKQCIFNYPKEQEQM
7277	15328	A	7942	15	334 QHFWENFHVTKDRINTGERQETDWKIFA TYLMKKV*ISRKCYNYSVKLVRKKQLNR KWAKEKNKQSQQKKQSQ*TKTVQPQ* NKRNNAD*RIVYLSPISLAKSNKLNY
7278	15329	A	7943	1	400 ESRILICQQMVMGEKPFGSCCEKAFSNK SYLLVHQOTHABEKPYGCNECGKDFSSK SYLVHQRIHTGEKLHECSECRKTFSFHIS QLVHQRHTGENPYECCGKVPSRDIQ LVSHQKTHS*QPVYCNEW
7279	15330	A	7944	46	364 SHLPNSSFEOKYAYEFVPGYQKHHTLSK FPPWPFAEMEKLILKFKWKS*SHITEAIL RRKNKVGDLTLSDVKSSL*RYDNQLLSV *Y*YKIIIRIGPWDHGRPDJHL
7280	15331	A	7945	3	312 VCPCSQLNAITSTTRCLRGFCVSSSYR RRARERGMEKQTQEREROR*REQRQR GEERQRGGKREPHSARAGGGGSRERER VREI *SDSDRSLEREALLR
7281	15332	A	7946	225	720 GLAHSIAVRHSSFWGHLDQSGPLVPPGA GOQSLGLLAAEWVGKASWGPAPACPT PISEALVCSFRTSPTSPTHAHGPVSGPA SVLAALRLGLHLRLRGCGGGTPTSPQLQ DEEAN*GHRGHCIDRLLRLTQAPTAQPL WHRPWQKDWPNLPLPRPLSFWCRRPPR
7282	15333	A	7947	43	418 AYWGRKTPWLTISSFWPTPGSPYDNGR PLCYSDSDAVLLCDISRPETGDSALKV RLDQLSNL *LSMRTKCESGPCHECLLLTS RNGSGQRKRFAOGHTISYSSGTGTWVL PHCLPPFLSH
7283	15334	A	7948	2	221 AGPGGSPHIGVVGSPPLRISTRTHLCFAATR SLLHDPLIVLPLVVDLKDRIII*NWLGLQP LPASSLQPTALYS
7284	15335	A	7949	1	409 SPGTCGRPPQTM/PGPADFPAVEGRSLG LSPSQGGPAAGGGDAGPOQEDVRQPPGEL AHGPPLPAQTG/SPGPQGLWLHRNPTTS/G PPSQIGEGAEQQDGEVADAPQIQCKNVL KIRRKMNNHHKYRKLVKKTRFLRRKV
7285	15336	A	795	23	153
7286	15337	A	7950	2	361 YSTSPAGQVGRLLSPSQGGPAAGGGDAGP QEDVRQPPG/EAGSRAASCPCDWP/PG/AA GHVAPPQSYQCPSPQIGEPGGTPETQA DOVRERPEAHLAEGGAKGSPPRAGRPR STCGANESG
7287	15338	A	7951	337	1067 NLKAHPRRPFNPPPLASGPFFLLAGADTW *GIGQWKPTSSLRVPGIQSAGSERGREP SSPGG*RTSSWGPASPAPAGPPCEGERP RLPGPAGDVL*RETADPAAOHSMRQAK AGGRLPKERPSTACKGSAGPAWSVGGG HRSQGSSTRLKLTVLRPSPGSTGPSPSRP RSAAAATRERFLRTAPAGVLAAPDSALAQA PPGPKGDGFRCGPWIYQVNRFRTTQ GDPDSQRADGSAGSLRK
7288	15339	A	7952	127	440 SLRYTFLYTPHILEHIVLMMQTCCLHGFISYLLHTFLQHIFPHTLFQQTCSSIQLY FLV*YFAVYVTFLFLYLSYPFLYYY*AC FETITDSFNEIGRV
7289	15340	A	7953	2	341
7290	15341	A	7954	288	802 GVIMATSELSCVESEENCREAFAEW KDLTSLSTR/AEREQGCSLHEEDTQRHETYH HQGQGOVILAQRSPWLMMRMGILGRGL QEYQLPYQRVLPLPIFTPAKMGATNEER EDTPQIQLQELLALETALGGQRVDRQEV AETKQLPPVVVPVKPGALRRRSLSRSMSQE AQRG

7291	15342A	7955	72	488	HEAGSRMNGDHNSDVSQD*ODFVQHF CQIGRVLTEDEMGHPIEGDAIARLKEVLE YNAIGGKYNRGLTVVVAFRELVEPRREQ DADSLQRAWTGVWCVE/ADDIMDSLLT RRGQICWYQKPGVGLDAINDANLLEACI YR
7292	15343A	7956	1	236	GTRVVAFRELVEPRKQDADSLQRAWTV GWCVELVRGVGQGRRSFLQWW*LGE GEGWA*NLFLGCVCSLSLVCYQ
7293	15344A	7957	317	1395	TGDONSDVYAAQEKKQDFVHFSQIVRL TEDEMGHPIEGDAIARLKEVLEYNAIGG KYNRGLTVVVAFRELVEPRREQDADSL PAGFWTVGWCVELLQAFPLVADDIMD SSLTPPNRSCWYQKPGVGLDAINDAN LLEACIYRLLKLKYCREPYYLNLAEFL QSSVQTEIGOTLDLITAPP/QGNVDLSEF TERKYKSIVKYKTAFYSFYLPIAAAMYM AGIDGEKEHANAKKILLEMEGEFFQIQQD YDLFLGDPSTVGKIGTDIQDNKCSWLVV QCLOORATPEQYQILKENYGOKEAEKVA RKVALYEELDLPAFLQYEEEDSYSHIMA LIEQYAAPLPPAVFLGLARKIYKRRE
7294	15345A	7958	3	484	ETPPVATSAAIRLVLPSLRVTSPGRQGP SVDRVVFPFPKFRPERSRHAAGPNVVR PQPKPHVGGERGRPNAPANSFRSCSN LSQYSLPKQNKSSTNP*IPNPKPTPAPASPS GRTDGLSLLQPLPGSDGQASPTMRSSPAI SSALEIEFGEATNPFH
7295	15346A	7959	3	432	SGSSRPRGSAQRPGPAGCMAAPTS*E'S SPPAWPQRPPCGLHLHCPACVHPHRDSDG GSVPAPAACCHTPHGRPWPFEQQRPQT QPQPGPAWVVRPVLTLFAGRVASVPLVS LCWASGSQPGPPSGGSGRALCTGLGAP PA
7296	15347A	796	84	358	APRADAMGHFTEEDKATITSLWKGANV EDAGGEALGRLLVYYPPWTQRFDSF/GQ LSELHCDKLHVDPENFKLLGNVLVTRFA IHFKEFTPE
7297	15348A	7960	2	331	VCKLQPOOPLAHSHGSPNIIHSQLCPSHAW GLVLSSGCVTFLRESFFLCAFALVORKS SSLGILSCPGSIFTALNSTNLYILGFLGGF CLVFP*DRVSLCHPGWSEVQQS
7298	15349A	7961	25	364	LFYLYHLLFGFGLFLFLIKLGSSSLFINFS KKSVL*FTNWYIFSVLYFTDFCFIIFIISFFG FSLYIFIVGFLKFIFGFLSH*ITFYQOA OWLTFVPLWVAEVRGSL
7299	15350A	7962	174	469	NGPP*RKKFLSIPRKIWAPPGBF*/EGPPL FFFFFLTESCSV*A*GMWRWHNPGLLQPL PSGFQKFSCLSLPSSWDYRCPLPHPANTF VVFLVETEFC
7300	15351A	7963	65	2774	
7301	15352A	7964	243	687	PHIPHSSEENEFELIVSSTGQTWHFEAASF EERDAWWQAIQSILASLQCCESSKVKV RV*GGVEDWPQELTLVLTAIQNDTAEEVV *EESRGV*EGGGAWRQSOCOPOPSQQLR TDSQSEAIAIQAIRNAKGNSICAHASAD AWVEA
7302	15353A	7965	3	368	PSDPEVAGDPFIPPPGPPSCPEVKDKTKSSI SLOWKPPAKDGGSPIKGYIV*MQEECTT DWKRVNEPYKLITTWECGGPNLKELRK YRFVRKAWEAEGESEPRDTITGEIPATDQ EEPEVFID
7303	15354A	7966	3	78	FIQNIJIASTVRTVMVADCSRFDSPDPLL EADGPATSPCRUDLGSNDNEEVVAIPDIPS HPKEGLSYSLSCVLLGRSLPRCLISCYIPL CLSVASGPHKFY*PHCQHRPHGDGRLO PLRQP

7304	15355	A	7967	195	345	NDISANPAIKKFWKLPKCPTTEGWLN*
7305	15356	A	7968	2	801	LYIHLVEYYATLKVCVGDLYVR WRNSADVVWYCGGPLDILPSNWSGT CTLVQFAIPFALAFLQPEKEPKQRHKIRE APYGSFDSQVYLLDATGVPQGVPHFKKA QDQIAAGFESIFWWVTISKNDWVINYY NQQRFINYTRDAVKGIAEQLGPTSQMA WEINRMALDMILAKKGGVCVMIKTQCCT FIPNNTAPSISITRAQLQGLTALSNELAKN SGVNDDPSFGWLERWFPGKWKGIASLTS AARIGVILFGC*VTPCIRGLVQRLJETVL TKTSLSSPPPYSD
7306	15357	A	7969	113	362	WLHAPECFSQCPSQSPS*LGCGQGPESDP DPRSVVGPPLSQAGSPGRPGTVTILCCL WPHLAPLFHLWSPGKCTSLLVVQHS
7307	15358	A	797	1	428	
7308	15359	A	7970	1	955	MTQPFPNSAVERIIIFAGSPGHTVFSSERSL LVRPRSHPEPKGEHYTYVGSPITPENQRTS AAMSKPHSEAGTAFOITQQLHAAMADT FLEHMCRLLDIDSP/RRPLPATPQKPPPW VPWRPSSAAVG*SSSPSLADVKSQLV VTCCLACHCHWQREEWVLTLGQQGCLS VSEFRV
7309	15360	A	7971	113	716	RSLGPQCOHSWQSSPGGPRPQPRPPGLGP CTAOGRCHGTGPD/E/TVWGFRVTAMM GARGRYL/AHLVSRLLEM/GWGSYIRVIFT RPQEVPSSGRSNSSSPHPAQ*GLWPLQHLL RRTPEARAAAPHIPSAC*VTICPLPFFH RPRDQDH LAPARSASPTVPUQPQMVGRTP PTP*TLTQRGSPPGMSPAPIPLAANDSDK PST
7310	15361	A	7972	244	1510	KFPKKKTPPHLGMEAITLWQFLQLL DQKHHEHLCWTSDNGEFLKLLKAEVAKL WGLRKNKNTNMNYDKLRSRALRYYVDKN IJKVIGOKFVYKFVSPFEILKMDPHAVEI SRESILLQDSDCKVSPERGAEAHKGHLAV LRSTSNEYIHSGLYSSFTTNSLENPPDAF KAIAKREKLEEEPEDSPPVVEEVRTVIRVT NKTDKHVTRPVVSLPSTSEAAAASAFLA SSVSAKISSMLPNAIASISSASPFSSRSPSL SPKSPLSEHRSFLFLEAACHDSDSLEPLN LSSGSKTKSPSLPPKAKKPKGLEISAPP VLSGTDIGSIALNSPALPSGSLTPAFFTAQ TPNGLLLTPSPLLSSIHFWGSL*SKFVP LSPARLQGPSTLFQFPTLNLGHMPVPIPS LDRAAFPVLLSNNSQKS
7311	15362	A	7973	1	1230	
7312	15363	A	7974	3	358	LPAGPARPEWLLFPAPVVGVLCWTPQS ISLHFLPNVGQTLSSSSSSSSSP*RT*LP MTLS*VGAWSGFKPISRPPEPHSGHNSPS LSQPSLTILVSSNSPGSGKARGPQCPQAW L
7313	15364	A	7975	194	372	LFG*LKAPPGLKQFSGLSLRRSGNYGPP PPPVPYFFFVFLKKNGFPLVTQGGLNLRT WG
7314	15365	C	7976	238	459	
7315	15366	A	7977	1	505	AGGAGEETPHQESQRQGCALPQEPPLYP PCFAIHPPPLPLGGLLFFSLPSLALSCMV PPPPWAQEGI*MINHOPPEKKRLWGGPP ANSPPFARPLNPHLFQAGTGCCPCPREVP TPSPPWAEPPPLPGPSEIAHLLTVRRGA ALANVNHENISDTDENKLNAFVTA EIH
7316	15367	A	7978	39	141	LSIRGLNIIIKRQRL*DWIQQDSTLCPP*

7317	15368A	7979	8	532	FNYLLKFKIIRRPHAFOMFPMSQKGEG PIETAESLSHHGLSL*R*EISWAPTCG AIPFSSAATLGSVPVLGASVPLGAAGMQR GRRGHRIPGDTWGLLPGAGGTDAESPA HNWEP*TSPVPSRPHGSPSAGLQSGRP PL*GDCEWGRKAKGKHAY*VPGPELHT LPLSDP
7318	15369A	798	2	476	VNVEDAGGETLGRLLVVYWTQRFD FGNLSSAISGMNPKVKAHGKKVLTLSG D/ASSASAISGMNPKVKAHGKKVLTLSG AIKHLDDLKGTFQALSELHCDKLJIVDP NFKLLGNVLTVLIAHFGKEFTPEVQAS WQKMAEDIVTGVASALSSRYH
7319	15370A	7980	1	9786	
7320	15371A	7981	27	13822	VPSVAAAEEPAQPARAARPRGRSPGA APPQLAMDPRPALLALLPALLLLLL AGARAEEEMLENVSLVCPKDADTRFKHL RKVTYNYVEAESSSGVPGPTADSRSTRIN CIVKELEVPOLCFSFLIKTSQCILKEVYGFN PEGKALLKKTKNSEEEFAAMSRYELKLA IPEGKQVFVLYPEKDEPTYILNKKRGIISALL VPPETEEAKQVLFLLDTVYGNCSHTFTVK TRKGNVATEISTERDLGQCDRFKPIRTG
7321	15372A	7982	40	400	ELFGIHALQTIAYSILWDLKFLMRNLALG GGLLLLLAECSRSEGKSMFAGULMFMTLL HFDASFFSIVQNIVGTALMILVAIGFKTK LAALTLLVWLFAINVYNAFWTIPVYK MHDFLKY
7322	15373A	7983	1	900	FRAGAGADGREPASERASRAEPPAVA MGQNDLMLGMAEDFADQFLRVTKQYLP HVARLCLISTFLEDGIRMWFWQWSEQRDY IDITWNCGYLLASSFVFLNLLGQLTGC LVLRSRNVQYACFGFLGFHIFLYTIAISL WDLKFLMRNLALGGGLLLLLAESRSEG KSMFAGVPTMRESSPKQYMQLGGRRVLL VLMFMTLIHF'DASFLLFLVQNIVGTV MLNVAIGFTKLAALTLLVWLFAINVY FNAFWTIPVYKPMHDFLKYDFQFTMSV IGGLLIVVALGPVGVSMDDEKKKEW
7323	15374A	7984	2	397	GRVGRPTRPTRPTPTRPRPSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSSSSSSSS PFFGVSFCVPEILKSSPRIGCPRN*APPFK RGNL
7324	15375A	7985	5	230	IGNFKNVFSIVNITRQNTSTDienLNNT HV*NTVSNS*YTIVSSACGIFTKISHLLR H*TSLDKF*KLDVLWS
7325	15376A	7986	1	366	NPSIVGGODLCKGNVKTQIKDLLADGSS SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS KPTPSFLIELGKTTIVQFL*NQKRV*ITKV SKKPQKTEENKTKLEAFHSTLCYLPSNYA TRL
7326	15377A	7987	3	361	ISKKKKFLKFFFFLGF*KKPPFFFFPPPP G*RGKKJJFFFVWKKNPLEKNFFSLFLK KGPPPTPGGGFFFFKKKRAPQGGGPPKI FFFFFFFVVVFFFGDGVLCCPGWSAV
7327	15378A	7988	2	359	GLPS*HYSPSPOLPH*SHSHTIAPKAEEKA NRKETHFSRSRSPQQISGRCPQDKSLAKV DPLDQLRPMVGHSRLGRGPGRPHLKPKHMP PEQIQEEPEAHHLPLVCEQIPLLPWEDF VYGSSR
7328	15379A	7989	490	583	NH*SPMFYCICVCFCETESCSVQAQAGVQ WYNRNGSLQPPLPGPKGFVCLSLPSWDY RRRPP
7329	15380A	799	23	349	
7330	15381A	7990	1	129	QPGPEGKIRFFLKIPNLTPSGGKSLKFPLF KRVKPENCLSLRG*GCN*PGPEGKIRFFL KIPNLTPSGGKSLKFPLFKRVKPENCLSL

					RG
7331	15382	C	7991	96	380
7332	15383	A	7992	202	499 ILGFVQWHDHSSPPKTPGLKQSSCLNF LSS*DNRHMPPGLANFFIVEMGSCYVA QACLELLGSNNPLASVSQNAGITMSQC TQLFLLLLNRFP AFL
7333	15384	A	7993	1	206 NSSVFLHLQALGIPHLAYVSVPPTPG* GSGHGRSLLSISVGQGLPPQRSPASPFFH LDHQGPAW
7334	15385	A	7994	2	349 TCHRKRRKKRNPRHGEGVLGYPTDESAPP SAPALGPGEPRVPGSSGRASGH*WYPN AVESP*EEGEL*GRGETLVAEKKKPR HGEVGPSPMEKKCLPISP*AGPRGPRRP WF
7335	15386	A	7995	269	364 GHLSAIGHPFPP*MSFNHGRKTRTWNYLG SEQ
7336	15387	A	7996	1	314 PSRSFSINH*PHQDV*PRFFNGIHL*YSHT PGINHEPEPNSTRSKACWEFGSSNSNG NGSFLGAR*VDVQVLTTWRVIRVWN* CFGGRNSAPMAQSCKSSSES
7337	15388	A	7997	65	354 YFYYIFSIYHFIAIPPYFFSLVFLHLVCPYL SSFLSER*KIHVKLKDVKVNFS*TPKLSKL LELESISL/FFL*NVDFIILEILPLYSAIJK RVYF
7338	15389	A	7998	1	957
7339	15390	A	7999	97	4146
7340	15391	A	8	190	383 TRMIHITSVYSHPHQAOQLRGCEVRHKHA HLVLP/WSTSCSGIPRGQQTAAQQGYSR CFLAWSLEA
7341	15392	A	80	44	377 TFTYLENLNTAVRFWKLPYIHCFKNPG GAGLICIAFWLTKAFVFGSDYSCLCVTV VK*VFKPFLKDVEIRR/FTWTRQPWDAV FLRVPDYHALIQPMIDLETD*MRLANS
7342	15393	A	800	17	535 APSPDAMGHFTEEDKATITSLWGKVNE DAGGETLGRLLVVWPWTQRFFDSFGNLS SASAIMGNPKVKAHGKKVTLSDLGATK HLLDLKGTFQAOLSELHCJUKHLLDKGTG AQIHLSELHCDKLHVDPENFKLLGNVLVT LAHFGEETPEVQASWQKMVTGVASA LSSRYH
7343	15394	A	8000	97	2728
7344	15395	A	8001	1	2295
7345	15396	A	8002	97	4027 EKEPYEEISAEDREPQLQNYWSEVRY TVRCIYRQAGTPLADDQDQSLVPDKEGV KELVDRLCERDPYQYORLEQQAREVY LEMVKVRLRQLSAAAKVKAPSGLQGPP QAHOFISLLEFYGALCQAARSISTFLGT LENEHLLKKFOVTWELHNKHLFENLVSE PLIQLQSNLPALVSQIRLGGTTTHTCSEDTY STLLQRYQRSEEEELRVRVAEWELEQOKRI DAYVDEQMTCMKTQKRMLTEDWELFKQ RRIIE
7346	15397	A	8003	1	450 GVPYKRHIEGF*PGLNGLPKFNGPSSSS SDGLLRLFSGGSGGSQSPNWVPLGSYQGR SRPVPGGSSAEPFPSPSPASGGHThVPQLR ALPPLIGHSAAHPHLSLALTVPVVVVRT L*GHWGPGPPTLDAPPSPSFLQVPLSSQG GIPHWT
7347	15398	A	8004	16	303 GENPLMRWPEALPGVKTCFSPP*T*VG GGLMFLCCHHAIDSINFSAFQPINNADFTVP IEIGTITHQVSCQPDHTQPRGWWGVCLP HLYWGPPPISG

7348	15399	A	8005	146	808	RJFSLCSAALSKKHGNPQDCSRRAPGNN PAAlAIRSPLSVLGLRARTVTRKGGLRPR KGEQGPPIPSPSDPAVKPGGAEPGQARFAP VYQILIGAPRWELLSTGGYTUVSGSSPVV EVGTRANRQPRQ*ALFASHLPPLASRSSS SHEYTAAPPLVSRCGGSAGRALDSSPP QHSLAKPRPSAGLEAPGHWGRTGGIDRR RKGTGGEPIHTFAEVEALPASARP
7349	15400	A	8006	111	369	FPGPGPL*SPLF*GSSSSHSGVGK*NPSFL PGPTPVFFKNPKFFFFPWGGPPVSPFLWG GETGNWGNPGGGTLEGPGVYPPALPFG K
7350	15401	A	8007	85	394	DWRRRRRSRSS*REDCCOSTIVVRKRAK SNWCWSKEKSNSHERDSPIRUEKKRM SRSKGRDHENVKEKEKQSDSIGNDQEGS RSREKSNOFDSKSNSNERDH
7351	15402	A	8008	2	2255	
7352	15403	A	8009	1	1845	
7353	15404	A	801	17	533	
7354	15405	A	8010	12	450	SEPP*ITSVDPRVRGNASTGYGKIWLDDV SCDGIDESDLWSCRNSGWGNNDCSIED VGVICSDASDMELRLVGGSSRCAGKVE VNViQGAVGILCANGWGMNIAEVVCRQL ECGSAIRVSREPHFTERTLHILMSNSCT GGEASLW
7355	15406	A	8011	121	342	QNESVHHMKTFLAVFKLPLKIRQIKCYI FYN*ELKLYSVILKYFLYDFRPVCLVL EIPFMSTWFLLVSTR
7356	15407	A	8012	3	383	EKGPLSPKVLFHLCQKAPRFKDQQD SQELLHYLLDAGRTE*TKRQASILKAFN NPFTKTADDETTRKKVKTGYKEGVKMN IDRIFIGELTSTVMCEECANISTVKDPFIDI SLPHEERVKSP
7357	15408	A	8013	18	280	KCRSRN*TA*FHRLNAKALSLLTLNNVY QKKHLVEILSYHNCDSDQRNAPELDCLIR LQAQNQQRHIVFLTGKESTPKLSTMNG M
7358	15409	A	8014	3	271	FFLRQSHSHTURLECTGAI*AHCNLCLPGS SDSPASAS*VAGITGMCHHARLIFVFLVE TOFIHVQGQAVLELL/NLMICPPQPKVLG LQA
7359	15410	A	8015	609	921	FYLSEEAEFFFFFTETES/HLLSPRLECSC MMSAHCNLRLPGSDSPASAS*VAGITG GHIHPAQLFVAF/MYQ/GFCHVGQAGQQ LLA*VICLPQPPPKVLGITGA
7360	15411	A	8016	140	346	FPICYLLIGSHSVVQAGVQWHRHSQA YP*IEEHKQSSCVSLMSS*HYSHVPPSPG NILL*RRGSCV
7361	15412	A	8017	2	348	AGVPPGNPLWGGEGGGSPRGGLKPG FPQRGNPFKKSQPTPPGGPLPPIPWW GGGAGGSPLPQGQRFQ*TIGPFPSPRGK KKKPPFPKKKKKKKRKEKSEMPGMFV LNA
7362	15413	C	8018	282	497	
7363	15414	C	8019	267	473	
7364	15415	A	802	160	434	LISVIPALWEAKAEDHMRSVGQDQPQQR GKTPSLRKIHRLARHGGMHL*SQLLGRL KHKNRNLPGKSCSEPRSHCSSAWAT DQDSVSKK
7365	15416	C	8020	435	821	MKSRVIGWASGLKNE1FFFFFFWRDR YRAMPLRVLNLLFJIEPPVSLVKHW YRHEPPPRXRJLPCMMRLEGPHCFRDF ATIYKKQSRTVAGLFSCLIKFAHTNL ORIWDLNPISGYFPN*

7366	15417	A	8021	121	818	HSKGSSQVQSPGPEPPSAGPKPGQAQPQPT WGLAAPEEGREGGKCRHCRNSKPLSQ PCAGVWSGRGAEEGGAGPDHPARTPGP PSSPSCSAQLPDV**GLKPPLAESMDPGF VLEGGPRVRREGVCQCDGI*A*ELEEVPSPG GSATSGAATLSDRGGNGASQARLP*PS HWLPRAK*APOG*ASPGSPTACPAHPS WKGGSAGPDMGRGRVVVGDGGAWGT QSHCNTPSS
7367	15418	A	8022	11	368	SFTCFQFMHTKLLCNLNTLCNTFLSTGAFF LIVLTWLSPIAVRLSLNVISERPFLFILSVV DPCAHILYLSLLFVVS*VLPQVIALFVPH KRM*ETMYACLPVCP*LLTACLEHNCSIF I
7368	15419	A	8023	3247	5031	EGLRGTLALLTGGGRGP*GQPQQ/PGGP ASSPSPAAPGPAAAEPACSTALWPTVSL RAPSPCPPQRAGQGYGSWG/GEPG/NSM ASGGDG/EPLSOGPALAGTPGLARLQGP GHWAWSLWPSLRLGRGFPPGQIQGSPLSQP HSALTGRGRSPFGALGPPPPQRPHQRPAP DPARPRQR*TPLTAGATITRQPQLPQGNCR CSILLLFLILLFLILLFLFLFFFILFLFLL LIFLFLFLFLFLFLFLFLFLFLFLFLFLFL HVREAHFPDPVVEQRPFPFSVIGEVSFEVLV GQTQRHSSWEAIHLWGRHGHEHLGLEVI GPLPNPRKAWMPHLLQLGPGRDAEHGRH ESVVASSEGRVAPVGRPHRAALSRAAAL NEGTTGARGAAAAGRVVVMRLRQRGGG EHGGRQSSQAVPREGVPRRESVLLQLSL WACGVRLSPSRAGSRVQG
7369	15420	A	8024	87	567	KQPPPHGEASAawaATSRPGWLLCRPA EGITGTGWTADFVHPTLMLQKLPEHSGNFs GQSPPCOLEALPRPSTCPLGSSRGSGREG PLPPT*ELFPNGQSVRQCQVGGPYDSWC PGPQAPCPPTEP*M*PGQALTSAPGPNK HGLELGRRGPERAPGP
7370	15421	A	8025	2	347	KALACPPTCVCLGVHVAVSAGGFGH PLVRTRHIAAGHQVTLSFLHPTLCLCKPS NCTPCGSRRARVPTPTPLPAPGPQACFCVP GSHWLAWSPRGRSPPTSVAUTQY*OPP SC
7371	15422	A	8026	3	359	HEGTVOQPQARGLYEDLLMSEGENDED DAGSDDNDGNDNIFSIAHLSSESGRDSA*FG GIRPKOSRMLKENTRVMMDNEERLFLY EGDCGEASHGLEDSLCSYGSYEDPDK WNTQNTSFC
7372	15423	A	8027	2	424	
7373	15424	A	8028	3	456	PQTQREPTMVLSPADTKTNVKAAGWKVG AHAGEYGAEALEMPLSFPTTKNYPFPH DLSHGSAQVKGHHGKKVADALTNVAH VDDMPNALSALSDLHAAHLRVDIPVNFK LLSHCLLVTLAAHLPAAEFTPVAHSLDK ILASVSTVLTSKYR
7374	15425	A	8029	3	198	RQGCSVTQPQGVQWNNLGLL*P*PPGLK QSSYLSSPSSWDYRCVPTRLANSYFKF* YVFFCLF
7375	15426	A	803	1223	1338	RWPLWSFIETKRRTL*SQLRRRLRQENL LNLLGGGCS
7376	15427	A	8030	1	346	LFAQNPVTFKRIYCMMSKDIIDKVARP PEWKEICANHVVYNNKGGLGSRIYKVLILLE* KNIVRLNQKANAQFYAGYKLCYRKFS NKSIVNE*KVLLFMR*EYIPVSTHFICCVI L
7377	15428	A	8031	60	523	

7378	15429	B	8032	68	679	MGKEKXHINIVVIGHVDSGKSTTGHLIY KCGGDKRTIEKFEKEAAEMGKGSKFYA WVLDKLKAERERGITDISLWKFETSKY YVTIIDAPGHDFIKNMIGTSQADCAVL JVAAGVGEFEAGISKNQGNTREHALLAYT LGVKQLJVGVNKMDSGTAIILTGFPSLE PRHVSTWLQHVVTIPTRNWHKCYCVG VANFLN*
7379	15430	A	8033	53	1497	KPLKAKMGKEKTYINI,AVIGHVDSGK STTGHHLIYKCGGDKRTIEKFEKEAAEM KGSKFYA WVLDKLKAERERGITDISL WKFFETSKYVTTIICAPGHDFIKNMIG TSQADWCCPELLLLGVGEFEAGISKNQG NTREHALLAYTGLVKQLJAGANKMDST PPYSQKRYEEEVKEVSTYKKIGYNPAT VAFIVPISGWNGUDNMPLESANMPWFVKG WVKSRKDWWQCQLGTTLEALDCLPLPT RPTDKLRLAFQDA*QNGGIGTVPGVGR VEITVLFKPGMVGTVAPVNVYNGK*KS VEMHHEAFECKLFPGDCKGAFNVKVN SVKDV*VRGNVAGDSKNDPPMEAAGFT AQVIIILNSGQISAGYAPVLDGHTAHAC KFAELKEKIDRRSGKKLEDGPKPLKSGD AAIVDMVPGKPMCMVESFDYPLPLGCFAV RDMRQTVAVGVKAVDKKAAGAKV KSAQKAQAK
7380	15431	A	8034	3	309	RFTIGHYRMLSGEKPYEWBEGWGRKLSN TALTOHQRIHTGENPFCECGKAFNQK JTLIQHQRVHTGEKPYEC*ACGKTFRG GRFLHONLPTQKTPVQA
7381	15432	A	8035	3	366	RDVSVEILFEQDNQKEQSVALTLLDSLIQCP JDTRKQLAENLEMMPDFVGKTOPPLIKRA FSTEK*KFD*/TINLASYQIFNQL*ANCTK YVGCFVIEDYSGSESLIILFALIYNPDF VSLV
7382	15433	C	8036	310	546	MGIMMSVPPHPONVDYPLGEKILHILGF NPEIQLWEILFEQDNGRAISWPILLGFPL YSPIGHQGRQLGRRLNGLRS*
7383	15434	A	8037	97	333	HIRIPICSPQYMEKVVVTKNNNNYRILEID MNFFFPPETEGVGQGVLEVMPHHEELKPS IFFFF*DRVSLSCHFGWSAVVQS
7384	15435	A	8038	250	378	TESLYLNTIKATYEKFTANITLNNEMLKA FSLLRDTR*EHSLS
7385	15436	A	8039	280	759	GYINNGGRKRRTELKPTEPRSCRAEGGG VEGGPPACPPPTNCQLROPHLGCTEIS GQERE*GYINNGGRKRRTELKPTEPRSC RAEGGGVEGGPPACPPPTNCQLROPHLG GCTEISGQERESGGEGNGSPSNNRVH GFSKAGHGLGVGEEEERQLWL*TRK QRPNPIRRLPQASLHLPPASPQAVPG ALSSPRRWPOQPASIHSCPSPPRITKS
7386	15437	A	804	1057	1354	SQHFGRLLWQVNHLRSGAPAQPQQGQK PYLLKIQKLAQRDGARL*SQLRRLRQE NRLNLGGGGCSEPRSCHTCPAWVTKRD SFSTKTNQTEENNKKRIL
7387	15438	A	8040	1	401	ILVLDPPPPOPCKLILSVKGNPEDIFRQFFF SPYPLFPFFFFSYAKPPVSNETPFPPPHPRF SKLLSQGPADMPPLPGSL*LLHYSACM LHHLLFCSCSUAHCARLLSCQGCQYLHGL MIMFRSGHMHYAAGR
7388	15439	A	8041	32	378	CVYTFC*EISGLFPVWVG*YRK*GSSSS SSSSSSSSSSHFNKYSSCMENFF*NC*TVL QSGETILLIHTWCMRVLSP*CQQHLAG FFSUAIILSV*LHLTTVIFCIPQITS
7389	15440	A	8042	30	434	DGSSLCRPGWSAEQDCVSSGGEKKKG RDNIEDEACSSRSPRS*LFEEINHLVHALIE EDQLANIIIDSAGSAYTILDEKLTLSKRFT RWVPKPLPSDQLQTRAEFLMEILNGWD

					QDPPEAFLQRIVTGDET*FYQR
7390	15441	A	8043	3	340 IPKPMAKLPFMKYRDLHTNLLYSRM <b>E</b> TGPKHPMKTLKIMEDIALGMDNLSLMMYLYLELTARNCMERDDMTDCEADFGLSRKRYSGENYLHCRIANRPV*GSAJESLAHR
7391	15442	A	8044	3	378 LKKHVDFDLATNVQEKKIAALEDFADQLITAGHYAKGDFPSRNNEVLDRWRRVKTQMIEKRA**"KSQTLQOFNRDVDENEAWISEKLHTASDDSYSKDFTNIQLCKLLSKHOHKQAF*TELPAT
7392	15443	A	8045	169	375 SSSSLPLHITNNPLHQGQPLPPQLPAYTGAEGDPCALLS*YCLIEHLLNTAEAVNNIUTPLGKOPCKRYDKV
7393	15444	A	8046	27	289 RSPKTHGGGRRGWMVRPGTAPT/PCCPHRFQPL/CQPPLGPPE*SLLEGRSSLDGM EESQTHAAPACRTWCSDGPR*PWMPGAARCSG
7394	15445	A	8047	3	284 LFLWRRLQLTLTENPRWWPTLQDGQARD CSDACCPCPRPQLPSHSQSQTKSPIPEVPRPKHR*GVCAGPSHLPGFGSSPSCPWPWSGLF
7395	15446	A	8048	459	1020 EPPRGAEQGGVGPGKGPFETSAAPAPTPA REPERVPGGAAPPACACELVAAPAPA GOSLIPAGPRPRWERPWAAGAP/QGDKG PGEAAATSPA/RGDGSVEPKGGGVPLPRH AGPQARRCEPTLPHDLYSQVQPEHRAA GLHPRRSSGTI*APCTTCRVA**"DSSIPESREELRPSKKRSFRSEKEK
7396	15447	A	8049	3	417 VTCGKAFQAOKAQALIVHQULHTGKCPYDC GACGKDFFREKVHLVRHQRHTGEKFYD RSERGKAFSHKSDSLIIHVRVHTGEKPYEC CECGIAFSQKSPLIJHCRHTGERPYEICK COKAFYHK*QLSIAHRAHTDIAIG
7397	15448	A	805	831	1082 SQHFGPRPRADHLSRGDRDHPAQHGGETP SLLRKRQKLASHGGRHL*SSLWRLRQEN HLNPWGWCSELWRHCTPAWATSKNS F
7398	15449	A	8050	29	223 LIKKLASCAGGHELYS*LLKRLRWEN*SSL GV*GCGEL*SQHCTPTWVME*GPAQKH KNKTKKL
7399	15450	A	8051	194	372 ICQFLSSLSTANHPVLCFCFHKNLHIFIA ALFIIAKSWKQP*CTSVDEWIWGLAPLY
7400	15451	A	8052	1	325 FFFFF*DRVSLLLPKLECNGTISAHCNRL PGSSDSPASASSSFITIHVAPLPQLRHY*I FYDGTRSLYAG*YSQNLLIYSAPRQPYHFKDMNKILDIQRSYTKI
7401	15452	A	8053	228	481 QFRNTIFF*DRVSLLLPKLECNSAISAHH NLCLPGSSDSPASASRVAIGITGTCHHTRL LFVFLVETGFYHVSSQSGLELLTSGD
7402	15453	A	8054	175	431 LIVKMPPLK*SWKIF*MSK**VMLIH*GF VFLPVCVF*DRVSLLLPKLECNGPISAHRLNLHPDSSSDSPASAYIKGTVRQLSHEE
7403	15454	A	8055	257	453 TKGGYTQRTAIQFILFIYLFY*DGVSSL PRL*NGAISAHCNLHLPGSSDSQKKT KNFCTQ

7404	15455 A	8056	277	1230	ISFHLSITGAPSFFFFFFMESPSSLPRLEC NGAISAHRLNRLPGSSDSPASASPVGWD YRHVRHRSANFVFFSRDGVPSCWSSGLV SNSRPQMIPPSRPPKVLDLGLATMPGLCL ANFCGRNRVSLMCPWSPELKQSTCLSL PKCWDYRRRAAVPGLJFLFLRHPCTPLT ODEVQWCDHSSLQPSPEIKHPASASQS SWDQRHAPLHLANFYFY*FFETESHSV TRLECSGAILAHCNCLCPGSSYSPAPAS* VAGTTGAHJURRLANFFFVLVEMGFHIVR QVDARSLLVICLPRPPKVLGLQDVSHH RPAF
7405	15456 A	8057	1	467	FFFLF*EGVSLLLPRLECSGAIS/A/HCNLH LPGSSDSPASASQEDGITGVRYHAWLIL/ VFLVEIGFHIIHVQOADLKP*PVVHIPPPLFF FFLRQSFALVAQAGVQWCDSLQLTPPP RVQQILLAQPPEYLVAGFTGMRHHTRLF FFFAFLVETGFHPC
7406	15457 A	8058	274	321	
7407	15458 C	8059	69	254	MDHLYNXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXEIQFXXXXERERNKNPPAGD DIISRGVGQ*
7408	15459 A	806	144	441	GYQLPLODELVLGQFLQVSKIRFFSARK ITCNSHFLLLKFF*FPFIICK*VSFSERA AADRAGASHIPRIIHNLQRLOENSIRGPK YSSHITVSADAW
7409	15460 A	8060	32	169	NPVPPYPLCPALVFFLLIYLLIY*PSPLLR MSAPAGKGFLLSL
7410	15461 A	8061	417	490	
7411	15462 A	8062	424	579	
7412	15463 A	8063	1	2157	GFOQKRCRHRIAQLFAVGALVCCVLVLLHL SAMISASAAAARLVGAAASRGPTAA HQDSWNGLSSHEAFRLVSRRDYASEAIKG AVVGIDLGTTNSCVAVMEGKQAKVLEN AEGARTTPSVAAFTADGERLGVGMPAKR QAVTNPNNTIFYATKRLJGRYYDDPEVQK DIKVNPFKIVRASNQDAWVEAHGKLYSP SQIGAFVLMKMKETAENYLGHTAKNAV ITVPAVFNDQSQRQATKDAGQISGLNVLR VINEPTAAALAYGLDKSEDVKIAVYDILG GGTFDISILEQKGVFEVKSTNGDTFLGG EDFDQALLRHIVKEFKRETGVDLTKDNM ALQRVREAAEKACCELSSVQTDINLPY LTMDSSGPKHLMNLTRAQFEGIVTDLI RTIAPCQKAMQDAEVSKSDIGEVILVG GMRTRMPKVQQTQVQDLFGRPSKAVNPD EAVAIGAAIQGGVLAGDVTDVLLDVTP LSLGIETLGGVFTKLINRNNTIPTKKSQVF STAADGQTQVEIKVCQGEREMAGDNKL LGQFTLIGIAPPGRVPQIEVTFDIDANGI VIHVSADKGTGREQQIVUQSSEGLSKD DIENMVKNAEKYAAEDRRKKERVEAVN MAEGIIHDTEKMFEDQLPC/ADECN KLIKEISKMRELLA/ARDSETGENIR/QAA SSLQOASULKLFRNGLTKKMG*S/AEEGS GSSGHWGNKREDSKGREKPVN
7413	15464 A	8064	500	752	

7414	15465	B	8065	1	1713	MALWRGSAYAGFLALALTWRDRKKKF PGDDEAPGVKRTWAAGAGMGRQRQWLR KRVEVCTGRSANCTVAGVRAAGLVEK SPPPSLSVGRFRFCGDLDCPDRVLAEI STLAKMVECTGSTLGGGYKKJLKLTA AKFVEEHEGKKDIDSPTFLSASSWSS SAYGSRPQGELKLGQQGESDVKAT VAVLFSILSGAAKHSVDGKSLASELQL GLPKHEAASPCCYEEQSPQLQHLRVC SLRTWSLAARVAEAGTAETVDPDSAPA VWSRVCWGRLLATISPVNETDTCGME DRRLVVCRPWRAQCHMKAWGWRHPEE GTHSGAPSALVQALAVAIQLGGHLADP LLQVDPLSSCGAVSLDILIVLFYVRTAS VPETYIVKTLFKKLESQSLIQSNVLTRSN SMKAERGEAAKEKSEASRGWTFMRKFE RSCLHNIMMQGEAASADVEAAASYPKD LAKITDEHGYTKQVRCIQNSLLEGENA EEVRKIICSMSPPLKPGPVTLVVEEFLC ASKASVASGWIWKWRNWQEIRRQEE RDRAASLPDLOQASES*
7415	15466	A	8066	1	3053	MRPGFVSVGMVEGVGPEDPYVPLCY TPWPGHDLPLASRAALAQGRWSLHRMI GQDSGRRRSRQRQHFAPGTSSGLRSPAGL TRAAGAPPEAVSPSHIVVDSADLAGPKE IPGPWLPRAMYEA PGV KRAWAAGAGM RGRQWLRKRVEVCTGRSANCTV CAGV RAAGLVEKSPPSLSRMGRFRFCGDL CPDRVLAESTLAKMVECTGSTLGGGY KKLKLTAADAKFVEEHEGKKDIDSPTFLS SASSWWS
7416	15467	A	8067	330	452	
7417	15468	A	8068	3	347	
7418	15469	A	8069	3	1279	
7419	15470	A	807	165	1222	OSKRLNAKRYLITDNVVKLKEFQQKKV AVACNLSTGTKEYTFRNLKKKLTONKLIL KGELITLHLCSRDRHVELAKNVIYRYH AENKNFTLGEY*FGFLFVRLCYQLDLEE SAGELMKDQHLRGFDFSDSTFLNLMMDML FIKGKYKSLAQVLIEMKNDVYKFTKDTY VLAFACIKLNSPESFKCTTILREEALLK GEILSRRAASCFAVALALNQNEMAKAVSI FSQIMNPESIACINLNIIHIQSNMLENLIK TLKNAAEGNLSKFVKKRHVFSEEVVLAKV REVKVDVPAVLVAKFDEIYGTLLHTGQVT TDSLDAVLCHTPDRKSHTLLNNKRMVSR RTFQPLSQSSLAE
7420	15471	A	8070	1	496	LLGVAPSRAFQEEILR/DRASFHE/RPNLF ALKHPTSKAECTAEKCYRVTKGRIIFPS GSPFKSVTLEDGKTFIPGQNNAYVFPG VALGVIAGGIRHPDIEFLLTAEQIAQEVF EQHLQSQRLYPPLSTRDVSLRIAJKVLD YAYKHNLDSYTWPKEAMNVQTV
7421	15472	A	8071	228	448	

7422	15473	A	8072	3	1877	EGEDRGLPRTMGAALGTGTRLAPWPGR ACGALPRWPTTAPAOQCHSKPGPARPV LKKRGYDVTTRNPHLNKGMAFTLEERLQ LGHGLIPPCLFSQDVQLLRIMRYYERQQ SILDKYIILMLTQDRNEKLFYRVLTSDV EKFMPIVYPTPTVGLACOHYGLTRPRG LPIIIIDKKGHLATMLNSWPEDNIKAVVV TDGERILGLGDLGCYGMGIPVGKLALYT ACGGVNPQQCLPVLILLGTVGNNEELLRDP LYIGLKHKORVHGKAYDILLDEFMQ,AVT DKFGINCLIQFEDANANAFRLLNKYRN KCYCMFNDDIQGTAWSA VAGILAALRJT NKLNSNHVFVQGAGEAAMGIAHLLVMA LEKEGVPKAEAETRKUVMVDSEGLIVKG RSHLNHEKEMFAQDWHPESNSLDEVVRL VKPTAIIGVAIAAEAITFEQILRNMASFR RAPIFALSNSPPRKAECTAIEKCYRVTTEGP RQFFASGSPF*GVLIWEMGKTFIPGORG NNAYVFPGVATGVIAAGGIRHIPDEIFL LDSAKLPQEVESEQHLSQGRLYPLSTIR DVSRLIAJVKLDYAYKHNLVSYYPEPKD KEAFCKIPGSYTPDYDSFYT/VDSYIWQA GKAMNVQTV
7423	15474	A	8073	325	587	
7424	15475	A	8074	124	343	
7425	15476	A	8075	32	487	SRRHGSSLWGKVNVEDAGGETLGRLLV VVPWTQFDFSGNLSSASAIGNPVKV AHGKKVLTSLGDAIKHLDLKGTFQALS ELHCDKLHVDPENFKLLGNVLTVLAIH FGKEFTPEVQASWQEDGDWSQQCPVLQ IPLSLPMQMSFOG
7426	15477	A	8076	3	573	FCPRGQEEFEGGNKLLLVPDAHGVISQRRT KATITSLWGKVNVEDAGGETLGRLL VVPWTQRFDSFGNLSSASAIGNPVK KVAHOKKVLTLGRCQSTLDDLGKT FAQLSELHCDKLHVDPENFKLLGNVL VTVLVAIHPGKDFTPEGCRASWQKMGD VSGQCVPVLQJPLKPLGP*IQSFGQ
7427	15478	A	8077	2	347	
7428	15479	C	8078	213	263	MGFHHVSQDCDLLLTS*
7429	15480	C	8079	637	1452	MGIAAAASVLGDLAVVFGMHVPAQADG ODHOEELDHGHHTHAHAEDDAQVLLQPR LHLLHAALLVHRPVLRVVATLGPVAGG LAEALPHRKAVVLFPLPDFAGTVGDLR AIHELSWVCPVVEADPAAALHLSLVVP GILQAVLATAVVVSNELSLSDATHLLLQL AHIVEEFGPRHGNEDQEQQESKVQPOQ QAADLVDGADAAQEAHEHSDCDPADED IGPHPKRAGGGLQDRDETALVGQDPHPE AQDHCAQDKEDOVEEEEKVPQDFDTG*
7430	15481	C	808	324	500	MNGWGRSSFLKLQNLYLFLKMRSFDQA QWLTPKIPALWEAAGGSSEVRSLRSAW STW*
7431	15482	A	8080	226	314	
7432	15483	A	8081	2	350	KTLLFFFFFFFREPHNLLTSMICGLVYNQP PPQHLVHILLKRRIWPQGNILGINKKRPG TVTAHTCNPSTLGGRRGRITRSGVRD*PG QHSESPSLPTIQKNYPGV MAGACNPSTS GG
7433	15484	A	8082	172	287	JVYASEEKI*TFOEOGWFGAVAHTCNPST LGGRRGRITRSGDRDHPG*HRPP
7434	15485	A	8083	14731	15030	LAGCRPGAVAHSCNPSTLGLRGQJTLR SGV*DQPGQYGETPSLLKIQKLGRRGGR RLKSQQLREAEAGESLEPGRQFAVSRHR ATALQPGNRARLHLKK
7435	15486	A	8084	1	193	
7436	15487	A	8085	1	346	
7437	15488	A	8086	3	522	

7438	15489	A	8087	1	840	HMEPLYGTLLTDDEMRRLNIPVLODGDGLFLWVTGRAMELGRECLNLWGVERDEIIWVKTNQLQRIIRTRGRTGHWLNGKEHC LVSSSGAQFNRSWSTKKNHLISY*EKVQR CGFIR*SVILW*AGVGVKENPQGFNQQLD L*CDRS*GMCPFGSLSQSFHIVFGYQLFMV GCLIPRFFL*INIKGKGLGIAILCNLKQ LVFIS*VRSTSHKPDEIYGMIERLSPGTR KIELFGRPHNVQPNTWITLGNQLDGJHLLD PDVVARFKQRYPDGHISKPKNL
7439	15490	A	8088	13	323	
7440	15491	A	8089	3	218	
7441	15492	A	809	1734	1910	NWVGGQQEGREFFQV*WAIDLKSA*GE EIEPDIPKLKPGGQKWETGLRFLHPDSK WFF
7442	15493	A	8091	3	332	
7443	15494	A	8092	1	1431	MHKAGLLGLCARAWNNSVRMASSGMR RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVVSSRKQQNVDQAVATLQGEGL SVTGTVCVHGKAEDRERLVATAVHLHG GIDILVSNAAVNPFFGSIMDVTEEWWDK TLIDINVKAPALMTKA VVPEMEEKRGGGS VVIVSSIAFPSPGPSPYNVSKTALLGLN NTLAELAPRNIRVNC/LAPLIKTSFSRM \LGEPEDCAGIVSFLCSEDASYTGETVVN LSVMPFTGGVVCRAASWKEGGTPTPTP RESPRQREPGETSTDQENK/WNGLPA NQRPAAEGPVRRKTNKQKGIASTSAKD SINIRTGKDHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRNQNVSLLKEYKS SPAREQNWMENKFDDLTDVSPRSVITN YTQLKEHVLTHCKEAKNLKMLNEWLT RMKNLEKSLNDLMEPLITVQELHEGYTS FNS
7444	15495	A	8093	195	434	
7445	15496	A	8094	43	1601	SMHKAGLLGLCARAWNNSVRMASSGMR RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVVSSRKQQNVDQAVATLQGEGL GLSVTGTVCVHGKAEDRERLVATAVHLHG HGGIDILVSNAAVNPFFGSIMDVTEEWWDK TLIDINVKAPALMTKA VVPEMEEKRGGGS VVIVSSIAAFSPSPGPSPYNVSKTALLGLN LTKTLAELAPRNIRVNLAPLIKTSFSR RMLWMDKEKEESMKETLURRLGEPE DCAGIVSFLCSEDASYTGETVVNLSVMF TGGGVCRASAWEKGGTGPTPTPRESPR QREPGENQARSSPRMALRPFPPESASTS WMGPPEPVGNRERPCPKPARKVGASPRAL RRLGSATRMLSRAALRAGVGARAPRG GGRGAHATATVWSGLASAALTARALL KRSLACAAAPORCGWRLLCSSLSGSRG QGGQAHRGAHLRVRYGTASVFGTPTRL VASIQIUVPSGPAPRPGASHPATPSIQTL RQPLHLSLDIAPVGASSAGAGA
7446	15497	A	8095	2	172	
7447	15498	A	8096	3	823	
7448	15499	A	8099	346	461	
7449	15500	A	81	457	489	PP*ITLG*KTCQSQRWLMPVITLWKAEV GRSLRSRSLRPAWATRNPPISTKLN/LKIS WGRQGSSELRSRHCPTAWQHSETP1
7450	15501	C	810	226	306	MTTSPPPSALQKKEMEILPVLRVPS*

7451	15502A	8100	3	1560	SSLWRRQPELKAYRTMEYMAESTDRSP GHILCCECGVPISPNPANICVACLRSKVDI SQGPQKVSISSCKQQCQRYFQPPGTWIOC ALESRELLAALCLKKIKAPLSKVRVLDA FWVTEPHSKRLKVKLTQKEVMNGALQ QVFVFDYVVQSQMCGDGHESEKLKD WKAIVIQVRQKTLHKKTFYLEQLILKY GMHQNTLRIKBHHGDLFVYSSQHQIAQK MVEFLQCTVPCRYKASQRLISQDIHSNT YNYKSTTSVEIVPICKCDNVVCLSPKLAQS LGNMNQICVCIRVTSAIHJIDPNTLQVAD IDGSTFWSHPPNSLCHPKQLEEFVIECSI VQDICKRAAGAGMISKKHTLGEVVWVQKT SEMINTDKQYPCRTLGHHLNNPGDLVLG FDLANCNLDEHVNKMMNSDRVPDVVLI KKSYDRTKQRQRRNWLKLAREEREN MDTDDERQYQDFDLEEDLEDEAIRKNVNI YRDSAIPVESDTDDEGAPRISLAEMLEDL HISQDATGEEGASMILT
7452	15503A	8101	1	171	
7453	15504A	8102	3	231	RRQAQIAAGRVLVVALFGCGGLHSRL DGAACIPLGHCHGSREVETYTHQCGL VGLKLRLRGREOSDRGSGSLGT
7454	15505A	8103	48	532	NLMNICRGPCILPGAPFMRDLAAVA/SV GLP/LVRQQAQVAAGRVLVVALFEGCG GLHSRLDGAACIPLGHCHGSREVETY APQCGLVGLKLLRGREQSDEGGSLGLT "DAOLGPAGAEHPEIRAWE" TAVIISLVL SLEPRDGOGGRVARLGAREAJNP
7455	15506A	8104	3	421	AAEASVGLPLLRRQAQIAAGRVLVVAL FGCCGGLHSRLDGAACIPLGHCHGSREV VTYETHQCGCLVGLKLLRGREQSDRGG SLGLT"DGQLCPSADETYTISCPHLTGIV GLPGLDSADQGQGRVPRGLGARESVRT
7456	15507A	8105	94	582	LSHPLPLALGRQAQIAAGRVLVVALGG COGLHSRLDGAACIPLGHCHGSREVETY ETHQCGLVGLKLLRGREQSDRGGSLGL "DGOLGPSSAEHQSVSVPSLTVIISLRL EVGDGEVAVSPRAAGAREAIIRNSAPLV STTFKPHQVPRGLSCLLMPRDVVPVTS TAQSAAGEPDGRSGQSGRGRG
7457	15508A	8106	2	332	GSLQGLPGQSFSPFGFLLGRQVRVAAG RVLVVALFGFGGGLHSRLDGAACIPLPG HCHSSREVETDQTH"CGLVGLELLRGR EQSDSGVGLLTQDGLRSTSEDKVC
7458	15509C	8107	30	653	MTCSPLLLTLIHCCTSWAHSVLTQPPSV SAAPQQQTISCSGSRNLNVGNYFWSWYQ QLPGTAKPLIYDNDRKPSGVPARFSGSK SGTSATLAITGLQTGDEANYYCGAWDTS LDNWVFGGTEVTVLGQPKAAPSVTLF FSSSEELQANKATLVLCLISDFYFGAVTVA WKADSSPVKAGVETTPSKQSNNKYAA SSYSLSLTPEQ*
7459	15510A	8108	484	632	PWSHFRRF*LTMRIIEGLLSAGRRA/WM PWGGRDRDPSPGIQLQ*SPVGVDRDENL* TFCRGHCLLHGAPFMRDLAAVAFVGLP LLRROAQVAAGRVLVVALFGFGGGLHS RLDGAACIPLGHCHSSREVETDQTH"CG LVGLLELRGGREQSDSGVSGLGLT" DGD GPTSEDSKGATTSKRAAIVISLVSLEP DCQGGRVGRHGAEREAINP

7460	15511	B	8109	27	1337	MAWTPLLLFPLLLHCTGSLSQPVLTQSS SASASLGSSVTLTC1LSSGHSDYIAWHQ QLPGKAPRSLMKVEGDGSYKTGRGVPD RFSGSSGGANRYSLSNFQSEDADYYCQ AWDSSTAHSDTGRGGIVGRPPVRQCWP LLLLGLAMVAHGLLRPMVAPOSGDPDP GASVGSSRSSLRLWGRILLQPSOPRAD PRCWPRGFWSPEPQSLCYVFGTJKVTVL GQPKANPRTVTLFPSSSELOJQANKATLVC LISDFYPGAVTVAWKADGSPVKAGVETT KPKSQSNKYAASSYLSLTPEWKSHRS YSCOLQWGLLGLGASQGGFLYEPVSQCV VFGGGTKLTVLGQPKAAAPSVTLFPSSSEE LQANKATLVLCLISDFYPGAVTVAWKAD SSPVKAGVETTIPSQKQSNNKYAASSYLS LTPEQWQKAQKLQLPET*
7461	15512	A	8111	168	258	HLGHPRKQKQARGL*GHRAVQVLHNYYVI PM
7462	15513	C	8110	54	410	
7463	15514	A	8111	1	175	
7464	15515	A	8112	1815	2017	GQGAVAHTNCNPSTLGGQQGRITLRSGV QNQPDQHGETLSLLNISGVWWRAPVIAA FQEAEETGESLEP
7465	15516	A	8113	1109	1482	
7466	15517	A	8114	266	399	
7467	15518	A	8115	6	361	
7468	15519	A	8116	688	1127	
7469	15520	A	8117	2	311	
7470	15521	A	8118	2	51	
7471	15522	A	8119	203	365	
7472	15523	A	812	229	434	TEELKRCRQTLPSGCGVLPWRARLAvg VSA/GRRGRSSPMLTPSAAPCGNPGSLTS NLAAGCKPSCQAW
7473	15524	A	8120	152	314	
7474	15525	A	8121	11	380	RLHRRFLGESEQUFSFASSSSSSSSLTPSQ TROQIGPLRSIMKDLHSDDYEEESYEVDD NDNDSKMERMARPNR*RTSRRTVLSLDGSD SERSTS*PHYEPPPLLYTNNNQILEVE SPITHSL
7475	15526	A	8122	124	1924	ITAEGGRRRGGYHTIPQQTSGPPGMASS CSVQVKELELHRAQRKPKPTVEGFTHD WMVFVRGPFEHNSNQHFVEVVFHLHESF PRPKVKCKDPPYKVEESGYAGFLPIEVEY FKNKEEPRKVRFDYDLFLHLEGHPPVNH LCEKLTFFNNTEDFRRKLLKAGGDPNR SIHTSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSSSSSSSSSFSSKPHKLMEKEHKEP SKDSREHKSAFKEPSRDHNKSSKESSK PKENKPLKEEKIVPKMAFKEPKPKMSKEP KPDNSLLTTSGQDKKKAPSKRPPISDSE SARKRKKSSSEALFKSFSSAPPILITCSAD KKQJQDKSHVKMGKVKIESSETSEKKKST LPPFDIVDPNDSUVEENISSKSDSEQSP ASWSSSSSSSFHTIPGPQGQGPFLRSIMKD LHSDDUNEEEADEAEDSDNDSEMERPVN RGGRSRSRVVISLSDGDSSESSASSPLHHE PPPPLKTNNNQDSWKWKSPIKQSK\SD* GKLKNGEC*OGLT*MELVGAFTGRFIDF EERHILQIIVNLIEETIGHFHITNTIFDFD LCSDLKTTVRKLQSLETSGTS
7476	15527	A	8123	2	319	
7477	15528	A	8124	1	323	
7478	15529	A	8125	31	118	
7479	15530	A	8126	1	4938	
7480	15531	A	8127	472	4356	
7481	15532	A	8128	2	236	
7482	15533	A	8129	503	638	

7483	15534	A	813	1060	1542	GRDMVAPDASWKEASGCNAPARICPGQ AFRANGCSDPTLGIQHQRLFRSRLSPKVL GPVQWPWELGG*DEAPSASFSSHWEVL GRLLVGASGSPSVKQEPAALERARVPGD AARRQPRDRKGPPGCCSEHPAVPRAP LVAGLDAGSGAPRAKLGVNN
7484	15535	A	8130	464	2848	GETGMSTALTHTTVAAMRCPMGLGGGGGP TYGPPQPGHDPDVHIMQHHVLP1QARLG SIAEIDLGVPPVMKTFKEFLLSLDDSVD ETEAVKRNYNDYKLDFRRQQMQDFFLAH KDEEWFRSRVYHPDEVGKRROEARGALQ NRRLRFLSLMETGWFDNLLLDIDKAJAI VKMLDAAVIKMEGGTENDRILEQEEEEE EQAGKPGEPSKKEBGRAGAGLGERK TNKDDEKEDGKQAENDSSNDDKTKS EGDDGDEKKEDSEKEAKKSSKKRNKR HSGDDSFDEGSVSESESSESQAAEEEEE EAELKEKEKPWEEEWEKPKDAAGLEC KPRPLHKTCSLFMRNIAPNISRAEISLCK RYGFMRVVALSEPQPERFPRRGWVTFD RSVNIKEICWNLQNIRL/RECELSPGVNWL DLTRVRNRNINGITOHQKQIVRNDIKLAALKI HTLDDRRTQLWASEPPTPLPTSLPSQNPI LKNITDYLIEEVSAEEELLGGSSGGAPPEE PPKEGNPAEINVERDEKLKVLVDKLLLYL RIVHSLDYNTCEYPNEDEMNPNCGIIH VRGPMPNNRISHGEVLEWQKTFEEKLTIP LL.SVRESLSEEEAQKMGKDPQEVEKF VTSNTOELGDKWLCPLSGKFKFGPEFV RKHFNFNKHAEEKEEVKEAFAFNFLTD AKRPLPEIKAQPPGAQUILPVRVVL PPGLTGPLPYPHQTGPGLMPYQGPRLPIL GYGVPTGGPPYPHAPYGAAGRNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDF
7485	15536	A	8131	2	433	
7486	15537	A	8132	1073	3545	GETGMSTALTHTTVAAMRCPMGLGGGGGP TYGPPQPGHDPDVHIMQHHVLP1QARLG SIAEIDLGVPPVMKTFKEFLLSLDDSVD ETEAVKRNYNDYKLDFRRQQMQDFFLAH KDEEWFRSRVYHPDEVGKRROEARGALQ NRRLRFLSLMETGWFDNLLLGHTKLI AIVKMLDAAVIKMEGGTENDRILEQEEEEE EQAGKPGEPSKKEBGRAGAGLGEDGE RKTNKDDEKEDGKQAENDSSNDDKTKS KSEGDDGDEKKEDSEKEAKKSSKKRN RKHSGDDSFDEGSVSESESSESQAAEEEEE EAEEALKEKEKPWEEEWEKPKDAAG LECKPRPLHKTCSLFMRNIAPNISRAEISLCK LCKRYPGMVALSEPQPERFPRRGWVVF TDERSVNIKEICWNLQNIRGARSLINRWC SRKGKLRRAAVSLASGLRECELSPGVNWR LTRVRNRNINGITOHQKQIVRNDIKLAALKI HTLDDRRTQLWASEPPTPLPTSLPSQNPI LKNITDYLIEEVSAEEELLGGSSGGAPPEE PPKEGNPAEINVERDEKLKVLVDKLLLYL RIVHSLDYNTCEYPNEDEMNPNCGIIH VRGPMPNNRISHGEVLEWQKTFEEKLTIP LL.SVRESLSEEEAQKMGKDPQEVEKF VTSNTOELGDKWLCPLSGKFKFGPEFV RKHFNFNKHAEEKEEVKEAFAFNFLTD AKRPLPEIKAQPPGAQUILPVRVVL PPGLTGPLPYPHQTGPGLMPYQGPRLPIL GYGVPTGGPPYPHAPYGAAGRNYDAFRG QGGYPGKPRNRMVRGDPRAIVEYRDL DAPDDVDF
7487	15538	A	8133	188	391	

7488	15539 A	8134	1	998	MAVMLHSACKWPLPVLOQGLTMOPPLPS KHISERSEEDSRQPLYSVILIFYEAEGAIL VPDFTDFQPCKVKRDKEGHYIMVKGSM QQEELTILNIAPIAPNTGASSFIQVQLGDPQ RDLDSHTIVGDENTPLSILDRLMRQKIN KDJDQLNSALDQVLDLIDYIYRTLHPKSTEY TFSAPPHHTYSKIDHIGSKTLLSKCCKRE IUTNSLDHSAIKLERIEKPTQNHTTWK LNINPLNDYWVNNEIKAEEINKFFETNEN RDTMYQNLWDTAKAVFRGKFIALNGH RRK*ERSKINTLTLQLEKELEKQEQTSHSKA SRQEITKIRAELEKIDS
7489	15540 A	8135	1	1674	
7490	15541 A	8136	3	361	
7491	15542 A	8137	3	174	
7492	15543 A	8138	3	326	
7493	15544 A	8139	1	82	
7494	15545 A	814	166	437	ADHLKSGV*DQPGQHGIELSSLKLQ*FPG RGGAHL*SQLGRLKQENHNLNPGGGC SEPRLCHWTPVRATVGDSVQKK*KSQD GPRAKLG
7495	15546 A	8140	2	372	
7496	15547 A	8141	1	352	
7497	15548 A	8142	2	395	
7498	15549 A	8143	4274	5256	HTLFGDKLCTVATLRETYGEM/ADCCAK QEPERNCFCLQHKHDNPNLPLRVPEVD VMCTAFHDNGETFLKK*VIRCL*FIKK HGVT*ANTL*KLP*QKYFQH*DELVLL* *FFKEV/FDITFKYTAKNMKIDILKFIET GYNLSQKFKIDKFPNVFRYYVYMVVID FVLVSNIILPKFNFHLCTHHTHTHLLTFST YLNKNDRKDTIMCKSLIG*LUESLEFGGS GENVDYNYFCNIVCYRK/ADCFPSFLKFR LYLEARRHPPYFYAPELFFFAKRYKAAC TECCQAADKAACLLPKVLCTRIEKKSLL SNLISLWLDSLGLTLSV
7499	15550 A	8144	23	136	
7500	15551 A	8145	1	248	
7501	15552 A	8147	3	231	
7502	15553 A	8148	30	217	
7503	15554 B	8149	49	754	MAGAAPRLPWSRSPHIGSCGWWPMQPLQ GPGRRAVAAAWEVATPVFMPVPGTQAT MKASRPNSWTLWVAASAWEYLPSGSK AGGTAAFPDGAVGVSVRGDGGGLRFRS PYDGNETLLSPENPCRSRMRWAPGVVT GALLQVNPLAGPVHAAHQRPDKQNLFA HQVWTQISGPPALKRFGSAWHSRALFLT HCTCTVTRPRITSRPQHRLPAELMSAV RTSIVEKRPFDSCCTSWSWAPX*
7504	15555 A	815	3	238	SQDRDHGP*HSETLSSLKIQQNIAGRGG RL*SRLLRRLRQENGVSFGGGACSEPRS RHICHTPAWETERDVS SKKKKKKL
7505	15556 A	8150	1	593	RQSRWRFOLPLRSWRLVPRIMRLVAEC GRSARAGELWLPHGTATPVFMPVGT QATMKGITAEFLDALGRCRICLGNNTYHL GLRPGPFLUQKANGLPLRS*WPSLILLN GTAAVFQMVSLVSLSEVTEEGVFRSPY DGNETLLSPEKSVQJNALGSDDIMQLDD VVSSTVTPRVEEAMYRSIRWLDRCICS H
7506	15557 B	8151	374	613	MTALDLFLTNQFSEALSYLKPRTKESMY HSLYTATILEMQAMMTFDPDQDILLAGN MMKEAQMLCQRIRRKSSVTDSSL*

7507	15558	A	8152	2	1922	VETPPPQGSVHSGLGSVVGDPHTGTGN AGERGPRKGARVLALDSGGMDSPSLP LIRTPESSLHEALDQCMTALDLFLTNQFS EALSYLKPRTKESMYHSLTYATILEMQA MMTTFDPQDILLAGNMNMKEAQMLCQRH RRKSSVTDSSVLVRNPTLGFQFTEEEHA EVCYAECLLQLRAALTFLQGSSHOGAVRP RALHDPSHACSCCPPGPGROHLFLQDEN MVSFIKGIGIKVRNSYQTYKEDSLVQSS QYCKGENHPHFEFGVKLGVGAFNLTLS MLPTRLRLLEFVGFSGNKDYGGLQLEE GASGHFSRVSVCVMLLLCYHTFLTVLG TGNVNIEEAEKLKKPYLNRYPKGAIFLF AGRIVEKGNIDAVSDGGPPGRGWGSLGV SOTSRKSGTCDDRDIDWGRGGGPREN QPESRGERGPSSGRAAWEDKGCGGICGA WDFFDWEI*DCSIAVEGGGGRCRLEAEVR KAHLFR*A*RLGWSLVPPLHYHSSLLFH VTKNQSPRRLGLYSLPSTSCKT*EVKPLE ARSPGSWGPT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVGAGWAPVRLTRRCIQL AIRRFEECCCEAQHWKQFHIMCYWEL MWCFTYKGQWKMSTFYADLLSKENCW SKVG
7508	15559	A	8153	1	285	
7509	15560	A	8154	3	409	
7510	15561	A	8155	1	390	
7511	15562	A	8156	17	221	
7512	15563	A	8157	2	366	
7513	15564	A	8158	1270	1692	
7514	15565	A	8159	2	261	RPRRSSSTS*SPH*PPAVAAPSGAPPWG LSCP RPRPAAAPPEALGQGP GPSTRG AAEVAGAAGSRPQPFYSDFQSRSFCCKS
7515	15566	A	816	4005	4345	SQHFGRPRRADHLRSGVQDQPQDQHGET PSLLGGRRGRTKSQDRDHPC*HGETPSL LKMO/EKLAGRGGRGLWSQLLGRRLQE NGVSPGGRACSEPRSHCITPAWLTEQDS VSKK
7516	15567	A	8160	44	463	
7517	15568	A	8161	2	318	
7518	15569	A	8162	1	349	
7519	15570	A	8163	38	368	
7520	15571	A	8164	43	376	LSMAN GPPHCTECTA FPRE SGKNCVCI FNTDGT LVA WRTG QKAD JISV SKGL LH SFYLL KAV CLE FSPK NTAL*TGL PY STSK DATA GIP NLQ LY DV KTG CLK SFL QK
7521	15572	A	8165	22	192	
7522	15573	B	8166	852	931	MYSPSDPRTVKSGVDGAMLSRKEKPLG*
7523	15574	A	8167	1	202	
7524	15575	A	8168	2	330	
7525	15576	A	8169	1	281	AAWILKARALTEMVYIDEIDVDQEGIAE MMLDENAI A/PSSPTITQAGRPTIGFLRPS TQS GRPGTMEQAI RT PRTAY TAR PT SSS GRF VRL GT
7526	15577	B	817	1	9234	MGAP TLPWAQOPFLKDHRISTFKNW PFL EGCA CT PERMA EAGF IHC PTEN EPDLAQ CFFC FK ELEG WEP DDPPIEEHKKHSSSS AFLSVKKQF EELT LGE FKL DRERAKNK AKETNNKKKEFET A KKV RRAJEQ LAA MD*

7527	15578A	8170	1	769	QAAWILKARALTEMVYIDEIDV DQE GIA EMMLDENIAQVPRPGTSLKLPGTNQ TG GPSQAVRPTSHSEKPTGFLRPSTQSGRP GTMEQAIKRTPTRAYTARPITSSGRFVRL GTA SMLTSPDGPFIN*SRJNLTKYQS QPK MAKA LPEYIFH HENDVKT ALEA LALSTE HSQYKDWWVKVQIEKRYYRLGMYREA EKQIKSSLKQQEMVDITFLYLAKVYVS QPV TALNLFKQGLHKFPGEVILLCGIARI YE
7528	15579A	8171	2441	2706	FCFGLSCSLLP FFFFFFFF MESRSV/AQAG VQWC DLSLHPLPPGSSNAPASASR VAG TTGAYHQCLANFGFVFLVETGVSLCWL GWS
7529	15580A	8172	1258	1733	ILFWIIQLNLCSEFSWRLRQGRGIMLFFF PFLFFFETEHSVQAQTGVQWC DLSLQP PPPLGSDPSALASSVSWITDVRHHLWLF VFLVETOFHRVHQASLKLPTSGDLPTLA SQA GIGVSHYAWLIFVFLVETEFHHV GQAGLELLAPS DPPA
7530	15581A	8174	196	390	
7531	15582A	8176	84	307	
7532	15583A	8177	3	383	DIKILI ASPSATHHKE TTRATSSPYR DTQ SRTASP N RAGKG VIEQTEKSHPRSPNVL AALS QRTT VPEEELNP KILAL QNAQRKR KMEHDG SLSL FQAVG I/DLACRL/LGQSM ESGLPQ L TS YDCEV
7533	15584A	8178	2	691	
7534	15585A	8179	2	202	
7535	15586A	818	1577	2233	SGCLLSPPSV GRQN SPV E LGGAGL SRAG WAPQERGRA ALLLIS PGPNV RGGPDWLP SVLQMRGLPLWDLG GRPDVGRMSPGGR PGSCWATOLRFHSSLA PLFWSWAGRS GS RJNPSTL GGRGGPI TRSGDRDH PG*HGET LSSLKI QKISQACWIR/ACSPSYGRLRQE NGVNP GGGACREQRSGHCTPAWATEQD SVSKKKKKSGSTIRLK HILHKII
7536	15587A	8180	1	62	
7537	15588A	8181	116	333	
7538	15589A	8182	55	351	QWSYLPQVMFTGENIPVWHPVYNSNGHI CLS LITED WSPAL SVQSV CLSI SMLSSCK EKRRPPD NSF YV RTCNKP KTKWWYH GKF EHD RHG KKM
7539	15590A	8183	3	474	DGSIMASMQKRLQKELLALQND PPGM TLNEKS VQNSITIQWIVYMEGAPCTLYEG EKFQLL FKCR RYYPFDSSQGMFTGENIT DHPHV YNSNGH MCL SILT KNWFPAL SVQS VCL SI SMLSSCK EKTTDHP DNSF YV RT CNKP KTKWWYH DDT C
7540	15591A	8184	1	232	
7541	15592A	8185	3	367	
7542	15593A	8186	1	203	
7543	15594A	8187	2	333	ARVKRLGMFNIQHCKKLSSW VLLMKYL GNATAIFFL PDEG K LQH L ENEL THD IJKT FIA EFC LH P KLSI GT YD LK S VL GOLGI TKVFSNGADLSV G TEEA PLK LSKAD
7544	15595A	8188	1	853	EYRFLVDRHLQLTTGNGLFLSEG GLYLV DKFL EDVGR LYHSE ALTVNFGDTE EAKK QINDY VEV GTQGKJV DVL K VEL DRD TVFA LVN YIF FGK WERPEV K DTE EED FHV D QVTT VKV P VPM MKR L GMF NIQHCKKLSSW VLLMKYL G NATAI F TL P DEG K LQH LENE LTHD IJKT FEN DRS ASL H P K L SIT GT YD LK S VL GOLG UTV K VFG RGS QH EK RRT EAT C RKT QNN RGT ER VATAI *THN Q KRKRAQ QGNT REKENG KQR QEG P FVFL MIEQN

7545	15596 A	8189	3	157	
7546	15597 A	819	151	454	FQKIQPGAVAHACNPSTLGGRSRIRTSRG GRDHPG*HSETPSLLKIQKLARGRGCGC *\$SQLLWRLRQENGVNPGGGACSEPRSRH CTPAWVTERDSVSKKK
7547	15598 A	8190	3	362	
7548	15599 A	8191	3	333	
7549	15600 A	8192	174	361	
7550	15601 A	8193	1	1143	VRCRCPVRNSRVDPPRVRMMAVFVLTLYE YSPLFYIAVVFTCFIVTTGLVLGWFWD VPVILRNSEETQFSTRVFKKQMRQVKNP FGLIEITNPSSASITTGTLLTDCLEDLSLTC YWGVSVQKLYEALQKHVYCFRISTPQA LEDALYSEYLYQEYQVFLSSDIPISTEN*T SYG*SVANLILILGILEACLLLNQNKISPC RTCSVVRISVSGTGFAFCFRLIYPLALIIRL LMDKVPPLTY*SFLQY*KHVYCFRISTPQA LEDALWSEYLYQEYQHFIKKDKSKEEYIQC LPRUTNDDFGTVPRSRYPLVALLTLSDE DREIYDISMVSVHIPRTYKLSCLRIY QYLLLAQGOFHDLKQLFMSANNFTPS NNNSSE
7551	15602 A	8194	2	499	
7552	15603 A	8195	3	486	
7553	15604 A	8196	80	1281	LPAQKLDTMCDDEDETTALVCDNGSLV KAGFAGDDAPRAVFPSPSIVGRPRHGVPM VGMGQKDSYYVGDEAQSKRGILTLKYPIE HGIJTNWDDMEKIWIHHTFYNELRVAPEE HPTLLEAPLNPKANREKMTQIMFETFN VPAFMYVAQAVLSSLASGRRTIGIVLDSG DGVTNHVPIYEGLALPHAIMRLDLAAGR LTDYLMKILTERGYSFVITAEREIRVDIRIK EKLCVVALDFENEMATG/APSIHPPMEKS YELPDCIQVITIGNERFRCPHTLAFQPSFIG MESAGIHETTYNSIMKCDIDRKDLYA NINVMFGGHPRLYPWEFADRMQERDSP ALAPQAPMEDDQFIRPRRSAKYSVWIG RLPSWPSSLHLPSKMWITEAGSTDTEAGP FPSSNRKCF
7554	15605 A	8197	2	228	
7555	15606 A	8198	1	369	
7556	15607 A	8199	1	416	
7557	15608 A	82	999	1523	WEMVEIWYSsseQEHQLIKLSYQRKIPPL PHAHWWPNPNSGLPPEASK*PG*TLUGI FLGKKA*LQTFPLNYIRLENMOPRIGGS CPVIPTLWKAEVGRSLESLRLRPAWATR RNPISTKNPKLAGGARAIHL*SPGTPEAEV GGSPEP/GGRQGSSELRSRHCTPAWQHSE TPIS
7558	15609 A	820	1362	1647	
7559	15610 A	8200	2	396	
7560	15611 B	8201	1	555	MESTYMPINSGLDIKEVENVESECKAYNPRP FCKTYTMDKQPLNTGEQKDMTEFFPTDLI TKIJEEMSPESLRLCEELHLHAENLSRRV WELLMLLPTCPNMLMAFQNISDEQGYS DLYPDSDSSEDOVENSKNSWSCKISSN FTSSSSKTIWYFSAVWEQLRYTLDNNVL KKSVIIQKDSESYED*
7561	15612 A	8202	1	901	
7562	15613 A	8203	1	407	

7563	15614	A	8204	2	1149	PDLELPRARPOLVNPGAKMETSNSLP TNISGGTPAVSAGYLLFDITLYLVFAVTF VLGVLGNGLVIWVAGFRMTHTVTISYL NLAVADFCFTSTLPFFMVRKAMGGHWP FOWFLCKFVFTIVDNLFGSVFLJALILD RCVCVLHPWVTQNHRHTVSLAKKVIIGP WVMALLLTLPVIRVTTVPGKTGTVAECT FNFSPWNTNDPKERINVAVALMLTVRGIRF IIGFSAPMSIWAVSYGLATIKHQGLIKV QVR*GALSFVAKAFLCLCWSPYQIVVA P**PTSQESREVNCKGMYQRKLGIAWDV NKVPLAFFNS/CAFNFPMVLVFVFMGQDFR ERLILHALPAKSGRGPPLTEDFNPKPVPQLT NSTLPSAEVALQAK
7564	15615	A	8205	2	386	
7565	15616	A	8206	2	294	
7566	15617	A	8207	541	711	SEVSAMVFLFFF/CFFEMERSRSAAQAGV QWCNLGSLQALPPRTPFSCLSLPSSWD Y
7567	15618	A	8208	2	1730	
7568	15619	A	8209	1	183	
7569	15620	A	821	10289	10708	SQHFQKLRLQEDHLRSGVREOPQGOHGKT PYLLKIQKLARRSGACL*SQLRRRLQEN RLNPGVGVCSEPRLHHCTTAWTLQ*DPV SKKLKKYIERQRYHQIMKHPWSTKIQ YVCMMDG*HRSVEKQIQLCMFVFHTHY
7570	15621	A	8210	3	320	
7571	15622	A	8211	2	198	
7572	15623	A	8212	110	363	
7573	15624	A	8213	1	849	
7574	15625	A	8214	1	993	
7575	15626	A	8215	23	627	
7576	15627	C	8216	79	171	MDISGTKCDFTVQVQLRFCLSETKATQP TN*
7577	15628	A	8217	3	630	
7578	15629	A	8218	1	188	
7579	15630	A	8219	1	2295	
7580	15631	A	822	662	766	
7581	15632	A	8220	143	5972	
7582	15633	A	8221	3	753	
7583	15634	A	8222	57	272	
7584	15635	A	8223	1	218	
7585	15636	A	8224	180	293	
7586	15637	A	8226	3	145	
7587	15638	A	8227	16	546	QLNQGRSIRHEVMSHRKFSAKRHGSGLFL PRKRSSRNHRQKVKSFPKDDPSKPVHLTA FLGYKAGMTHIVREVDRPGSKVNKEV VEAVTIVETPPMVVVGIVGYVETPRGLR TFTKTVFAEHISDE/CRLPLRQKKAHLME IHVNNGGTVAEKLDWARLERLEQQVVPNP VFGQDEMIDVI
7588	15639	A	8228	3	348	TRHIVREVDRPGSKVNKEVVEAFTTIVE NTPMVVVGIVGYV/ETPR/GLRTFKTVFA EHISDECKRKYKVNWKSKKIDLKFDTT SKLCGRLQTMEEKKAFCMGPPLKKDRIA KEEGA

7589	15640	A	8229	1	956	VNHAPAHASDGVMMSHRKFSAPRHCISLG FLPRKRSSRHRGKVKSFPMDPSKPVH LTAFVLGYKAGIMTHIVREIVDRUPGSKVN KKIEVVEAVIV*DTTHWCLLGVGVYVG NPSEGLRD/TFTKTCLLLEHISY*MPRERFL *RIWALKS*EGRPLPKYCKEIGKDEDGK KPAWKKDFQOH*KKLLAQVHPCSIQAT QMRLLPURQKWAHLMEIQVINGGTVA RESWDWAREKLEQQVPVNQVFGQDEM NDVIGVTKGKIGFKGVTRS/WPTN*LPK AHLGLSRVACPGAWHPARAHWIVVAR AGQKQYQPYTLLVHSNL
7590	15641	A	823	749	853	
7591	15642	A	8230	1	375	
7592	15643	A	8231	1	399	
7593	15644	A	8232	2441	2706	FCPGLSCSLLPFFFFFFEMESRSVQAQAG VQWCDLSSLHPLPPGSSNAPASARVAG ITGAYHQCLANFGFVFLVETGVSLCWL GWS
7594	15645	A	8233	1275	1749	ILFWIQLNLECESEFSWRLRQGRGMLFF PFLWIIIETSHSVACTGVOWCDLGLSLQP PPGLSDSPALASSVSWITDVRHHLWLIF VFLVETGFRHVQASLKLPTSGDLPTLA SQSAGITGVSHYAWLIFVFLVETEFHVV GOAGLELLAPSDDPA
7595	15646	A	8234	3	200	DALAFIVKVFAAEVEDGCSVTGS/HNH SVASGSNHRTFRFCFTVYLLSIVSWRY*SC RCRECRGRAF
7596	15647	A	8235	1	1214	
7597	15648	A	8236	24	183	
7598	15649	A	8237	256	491	
7599	15650	A	8238	243	385	
7600	15651	A	8239	3	403	SCYGFNVRGQVSDGGQLRSINGELYAP LQHNHHVNVEGATHKQVVDLIRAREKEL ILTIVLSPVPHHEADNLYPDDDSLGSOFYDY TEKQAVIPISVPRYKHVEQNGEKFVVYN VYMAGRQLCSKRYROFAILHQNL
7601	15652	B	824	1	855	MDVVDPDIFNRDPRDHYDLDLQLRQGLGGT YGEVFKLFAKYCTCITYDAMRVLFLM TKSGSQLPRLKEEKWYERVTGGRSAN VHYIIVYCSEVHFPLILLPTLSTKPLSSPEL NAAASYVPPPIIIHTDAASMCYLFHIMY VGVRAGGGIGDEIEPDAGDEYEYLVRVVF DITFFFVIVILLAHQGLIIDAFGELRDQQ EQVKEDMETKCFICIGSODYFDITPPHGPE THLEEHNLANYMFLMYLINKDETEHT QOSRALCRAFRGMRETGLVRALKELA V*
7602	15653	A	8240	1	706	
7603	15654	A	8241	323	496	
7604	15655	A	8242	1	483	
7605	15656	A	8243	2	740	
7606	15657	A	8244	249	390	
7607	15658	A	8245	24	426	
7608	15659	A	8246	1	240	
7609	15660	A	8247	935	1150	
7610	15661	A	8248	190	584	
7611	15662	A	8249	201	364	
7612	15663	A	825	65	290	HLVSSLAKGKIAVRQAPPFARVPPQHP*V KVKNWDPPLLQPPPCRGLALKVTGCRVL GTEGLPHLKDFPIRAATQPL
7613	15664	A	8250	1	1122	

7614	15665	A	8251	1	1197	MHKDWVVFVDSGEHKEALLHELOLCD TLKPAAHGQTRLVDSLSEHKAQGTGA HVYEEHRHQVSRSRTDDVGCVVPSECILR ACGAEVGCNSNAYPKLVMELMLPI/GSG AGDFPGPPLSNPLFLEAFDPSGI/RGLMIA VMLAALMSLTSIFNSSTLFTMDIWRRL RPRSGEREILLVGRTGIPSTPPAPQSLSRF LLPETPPLERYLJGLVVMDLWLIVVALIG VSVAWIPVLQDSNSQQLFIYMQSVTSSL APPVTAFFVFLGVFWRRANEQGAFWGLI AGLVVVGATRLVLEFLNPAPPCEPDTTRP AVLGSIHYLFHGVALFALSAGAVVVAAGSL LTPPPQSVCQEINLTWWTLAODVPLGKTA GDGQTQPKHAFWARVCGFNAILMCVN JFFYAYFA
7615	15666	A	8252	1	624	
7616	15667	A	8253	88	627	
7617	15668	A	8254	3	437	
7618	15669	A	8256	220	415	
7619	15670	A	8257	2	359	
7620	15671	A	8258	1	1270	RTRGRTRGELVLESGEWRWLLERCRPG GAVALILLAAVVSICAVSQHAPPTEDC RKSTYPPSRSRPTYRGAVPWDTI/HVLDLPP YKRWDDELMDMAPV/LSS/VINSLNKNMI NTFVPSGKIMQVDEKL\PGLLGNFGFP FEEMKGIAAV/SLDIPLGEUFSNFNIFYELF TICTSIVAEDKKGHILHGRNNMGP/GVFLV WNINNDTWITEQLXPLTVNLDFQRNN KTVFKASSFAGYVGML/TGFKPGLFSLTL NERFSINGGYLGILEWLIGKKDAMWIGF LTTRTVLENSTSYEAKNLITTKILAPAY FILGGNOSGEGCVCITRDRKESLDVYELD AKQGRWYVVQTNYDRWKHFFLDDR TPAKMCLNRTSQEINISFETMYDVLSTKP VLNKLTWYTTLIDVTKGQFETYLRCDPD PCIGW
7621	15672	A	8259	108	988	TARGSKARSGGTRWSLGPSSSGGRSW QPLVISRAV^H*GKSSRRHOPLYSHGPHHLG PVSHRGGPGPVRQPAA*TFRACASKLVLQ PWV*WGPB*LGSQLPALAGHLCRTGCCEES HHTCFCPGYVKP*RL*ALPGGRPV*VGER ARARPD*PREAAGCCTEEQ*HTDPAHP RLKRDC/PVSQAAVSTTASAGFPWA AASAGFPPTWTPLNLPATLGMQRSSCAL TFRRICRFLSONKWMQRSTSMAJWIWCN GSSGTSGRVSFSSSTLGGTDCSSSSLKS ETTPSATSFSLR
7622	15673	A	826	230	652	GLSAPVAADPSLEPTPALHASIRPEADLQ P*PTPLRSWSGS/PVGRSPRTGDPGSTV RLHRAIIQHPITISSSTWVTCGPLCSVLIS PSQQESAPKRTVLEEHRLPRPPGAHADA HSGQLRAWPQQREHQEASQWEQHP
7623	15674	A	8260	1	319	
7624	15675	A	8261	19	373	AVFFFFFFFBBBBBBBBBBBBBBBBBBBB FFFFSSSSSSFFFFSFFFFLFFFKLKELRV.I *PLNPEN*ESCLFSPVNLDMP*TFKDKR WKVNWARSTSRRQQLLESARTKSWAERE GOTRWRAW
7625	15676	A	8262	227	420	KNFLPNCSAKELFFFFFFFLLLLLL LYFKP/MI*WFYKHIALFPPLAFLI.SPTAL.* RGVFIHH
7626	15677	A	8263	400	582	
7627	15678	A	8264	1205	1681	
7628	15679	A	8265	1	403	
7629	15680	A	8266	3	397	
7630	15681	A	8267	36	446	

7631	15682	A	8268	1	453	RRIERHERHEELMTBEDOEDFDVGSAAARKEIIRNKIRAIKGKMARVFSVLRREESSEVLT LKGILTPTGMLPSGVLAGGRQTLQSATVE AIEAEKAIRGFSPPHRCSFEAKGLDRIN ERMPPRKDAVQQDGFNSLNTAHATEH GTGNHTAQ
7632	15683	A	8269	644	809	
7633	15684	A	827	108	1102	RMTQCLSECCLICKFLSGKVTLGQAQWLTHVIPAWEAEAGRSPVGRSRPLAGMVKSRVLVKIQKKKKKKKISRAWWHIMPV VPATWEAEAGELLEPGKAEVAARRDRA TALPAWGSQADGK*G*GLSAPVAADPSSL EPTPALHASRPEADLQP*PRPPPLRSWSG SOVCEVPGLGTTPGPSASQSHFSTPSPL PLPGSPARVPCARCSSRPSASKRARQSACP GRAPTSWAARGSRCTORAAOSLARSAA RTRTEASAVGTAPAAGRTGRGGPDQKQE FVHGLVPLKDNGRLQCTAQRERAPRAR TLRHTARPAAFGVLDLGGNHVLPCCQ
7634	15685	A	8270	37	235	
7635	15686	A	8271	2	230	
7636	15687	A	8272	516	693	
7637	15688	A	8273	2	434	
7638	15689	A	8274	3	417	ROAWHKAGLHAADWAGRARSLLGDHSHTWSAGSIPGKHQYAVGLHLWKVEKRRNLPRVLSPMPVAGTVCHAYDREVHLR CELSPGVYLAVPSTFLKDAPGEVLLRVFT TRVSLSAIRAVAKNTTPGAALPAVERG T
7639	15690	A	8275	308	614	GHSHGIALRPRQSQAQPLVHKVCCFQEE QMGAPEGKGPCECGSRICRLLAQGLGFHL VCLDRV*HLAPHCSLSLHGCGPHDVFFL VAKRSFLGLEGPLSSPP
7640	15691	A	8276	11	161	
7641	15692	A	8277	163	437	
7642	15693	A	8278	1	660	
7643	15694	A	8279	2	1246	SCSAPEELCSRLPTLGLARRNCNEAKVTG DRAFOICSVSDLGAPPMMALARLVCLRTL PSRVFHPAFTKASPVVKNNSITKNQWLTT PSREYAT*T*/RLGIRA WGEGLQELKEGS IGNHSMGKCNILKFDSDEGEWLV,AIGGA VVGLSGSICAYLLALGL/GLN*DLGAI*KR L*FGPQYVKUDRIHSTYMYLAGGVGLT ALSAIAJQQNRLFMELP*WRRLLGWTII GVDLWOPWLGAGMLVRSIFYDQSPGPK HLAWLHHSGVMAGVAVAPLTI LGGPLALIR AAWYTATGIVGGGLNTVAUMCAPSEKFLN MGAPLGSGAGVSVFVSSIGH*CFPPITD/T VAGATLIYSVIAAMYGISSFLSMFLLYDT PEKSRRAEVSPMYGVQKYDPINSMLIS IYMDTLNIFMRVATMLATGGNRKK
7644	15695	A	828	241	1104	
7645	15696	A	8280	325	432	
7646	15697	A	8281	1	293	
7647	15698	A	8282	1	366	
7648	15699	A	8283	780	891	
7649	15700	A	8284	44	155	
7650	15701	A	8285	336	414	
7651	15702	A	8286	1	294	KLDTVVEFPPIRGLNMSEFVCNMSARPVY YDLIAVSNHYGAMGVGHY/KAAYVLFY QRDDEFYKTPSLSSSGSSDGGRPSSSQ OGFGIDECASMDTN
7652	15703	A	8287	302	486	
7653	15704	A	8288	1	620	
7654	15705	A	8289	1	804	
7655	15706	A	829	95	462	

7656	15707 A	8290	164	399	
7657	15708 A	8291	1	2226	
7658	15709 A	8292	876	1102	
7659	15710 A	8293	2	426	
7660	15711 A	8294	1	128	
7661	15712 A	8295	33	279	
7662	15713 A	8296	198	779	
7663	15714 A	8297	1	441	
7664	15715 A	8298	132	700	
7665	15716 A	8299	303	617	AKPSSGFECRSRASFLSKECGKQLGPSSS ALSLSGSFFHLGAPS*PRTPRKSDGARCR PIHPPSMIGVQLLGGCLAQPHPHRAQL LDADVPITTSIKHVKGOP
7666	15717 A	83	2	448	LRHCPLQLKMVCRAIGILSRFFAFPLFLR SRGYICRNFTGSSALLTRTHINYGVKGD VAGARUNSTNSKVNTLTELQSFSQVM NEILSSYQIRRAVLISSKPGCFIASDINIL TACMLI*EVSHRSSEQAIIUVQKLEMTTLS IVA
7667	15718 A	830	2	648	
7668	15719 A	8300	50	257	
7669	15720 A	8301	110	179	
7670	15721 A	8302	187	571	
7671	15722 A	8303	2	150	
7672	15723 A	8304	227	857	GDSRSRVIRRQDTAWNAWSASHCRRLS ASSRSPLTGPAVGGMATGANAEKAES HNDCPVRLLNPNIAKMKEIDILYHFNLT SRH/NFPQALFGDVFKFVWGGPSRNEK PSSGCRRLGA\ELGLDCPGRDYPNICAGTD RYAMYKVGPVLSVSHGMGIPSISIMLHE LIKLLYYARCSNVTIIRIGTSGGIGLEPGT VVITEQAVDTCEF
7673	15724 A	8306	1	714	
7674	15725 A	8307	225	382	
7675	15726 A	8308	2	862	FLSVLPHSRALLTPKRAPKKIMAISGPV VLGFFIIVLMSAQESWAIKEEHHVIQQAEOF YLNPDQSGEFMFDFDGDEIFHVDMAKK ETVWRLEEFGRFASFEAQGALANIAVDK ANLEIMTKRSNYTPTINVPPEVTVLTNSP VELREPNVLCIFIDKFTPPVVNVTWLNG KPVITGVSETVFLPR\EDHFTRKFHYLP FLPLSTEDVYDCCR\VEHWGLD\EPILLKH EFDAPSPLPETTENVVCALGIAAVGLVGI IIGTFHHSRELRSNCRQKRKGGLCKAQ WR
7676	15727 A	8309	2	223	
7677	15728 A	831	90	401	
7678	15729 A	8310	1	3252	MELSVTLVSRAPRPGPLPVFRQLNTAIAVS QMSSGQCRLAPIQVIQDCSHLYHYTVK LLFKLHSCLPADTLQGHDRDFHEQFHSL RNFNRRASDMLYFKRLJQIPRLPEGPPNF LRASALAEHKPVVVIEEAPEDEEPENLI EISTGPPAGEPVVADLFQTFGPONGSV KDDDRDLQIESLKRREVEMLRSELEKIKLEA QRYIAQLKSQVNALEGELEEQRKQKQK ALVDNEQLRHELAOLRAAQLEGERSQ
7679	15730 A	8311	3	3253	
7680	15731 A	8312	1	673	
7681	15732 A	8313	177	393	
7682	15733 A	8314	177	400	
7683	15734 A	8316	1	473	

7684	15735	B	8317	549	602	MWWNSLDGIRNIVLSNPKKRNTLSSLAM LKSLSQDILHDADSNDLKVIIISAEGPVFS SGHDLKELTEEQGRDYHAEVFQTCSKV MMHRRNHPVPVIAMVNGLATAAGCQLV ASCDICRGERQDLCFSWVPRKVALEM LLTGEPIASAQEALLHGLLNLGGPEAEJQE ETMRIARKIASLSRGPGVSLGKATFYKQLP QDLGTDYVLTSQLAMVDNIALRDRQEGI TAFLHKRKPVWSHEPV*
7685	15736	A	8319	272	364	
7686	15737	A	832	276	488	
7687	15738	A	8320	1	322	
7688	15739	A	8321	37	344	
7689	15740	A	8322	3	412	
7690	15741	A	8323	37	438	
7691	15742	A	8324	2	424	
7692	15743	A	8325	543	848	
7693	15744	A	8326	2	242	
7694	15745	A	8327	2	246	
7695	15746	A	8328	294	402	
7696	15747	A	8329	259	350	
7697	15748	A	833	186	537	IWPPLRRRKARQEKEEKGIGAPRSPPSHNY PPGYLGCLGKTNTS*TYILDQSNIKGKRA AAILN*ILGGRKLRLEKSLSCQPKVEELEYE RVAW/IP*KPGCILLVSVKVRNVFDWCT WVY
7698	15749	A	8330	2	409	RPPPPVSSVPGPGRDQLGVITPLSGRHSSL CCWVRIVFPESUDGAP*MSAFPPRVNEKEI GKLLNLNVDHTEVVRDLTFAPDGSLLV SASRDKTLRVWDLKDDGNMMVKVLRGH QKLVYSCAFSPDSDSMLCSVGASKA
7699	15750	A	8331	453	684	SLRFVLSVFCQSLLLGKAESSKYDTRETP KAWKESAAPELLGWVAHSGLTCIDIKCC RARDLPWSGPKIHTSVMCPPS
7700	15751	A	8332	1	92	
7701	15752	A	8333	67	301	
7702	15753	A	8334	3	276	
7703	15754	A	8335	1	564	
7704	15755	A	8336	1	364	
7705	15756	A	8337	3	103	
7706	15757	A	8338	1	744	
7707	15758	A	8339	3	266	
7708	15759	C	834	79	405	MIGGTPQMFFISGAKGQWSPSPSQPPPR HRSSWPSSKSTSGGTAALGSLGSKDY FPTRTGDGVVELRRSIDORRAHLPGCPTVL RTLLPQQQRGDRDLQQLRHHIELRSL*
7709	15760	A	8340	481	637	
7710	15761	A	8341	1	3335	LNLKFEIEVLCKNLAIDINELKPGNLLKD KDRKLNLNDEOLSAPKKKDVKQPEELJPITT TTTSTPATNTCTATVPPOPQYSYIDIN VYSLAGLAPHITLNPTIPLFQAHPOLKQC VRQAIERAVQELVHPVVDRSIKIAMITC EQIVRKDFALDSEESSRMRIAHHHMRN LTAGMAMITCREPLMSISTNLKNSFAAS ALRTASPQOREMMDQAAAQLAQDNCE LACCFIQKTAVEKAGPEMDKRLATEFEL RK
7711	15762	A	8342	1	520	KMDSTEPPYSQSQRYYEEIVKEVSTYIKIG YNPDFTAVFPISPGWNGDNMLEPSANIMP WFKGWVKTRKDGNASGTTLEALDCIL/ PPTRPIDKPLRPLQDVYKIGGIGTVPVG RVEITVLKPGMVVMHHEALSEALPGD NVGFNVKNVNDVKDVRKGNAGDSTNE PTMEANGFT
7712	15763	A	8343	1	443	

7713	15764	A	8344	41	665	
7714	15765	A	8345	2	394	ADIERLRRMRRVMAAATHASAISGWNGD NMLEPSANMPWFKGWVKTRKDGNASG TILLEANLNCIGITVPVGRVETGVLPKG MEVTFAPGWTTTEVKSVEKHEALSEAL SGDNAGFNVKNVNSVKDVRGNNV
7715	15766	A	8346	1	461	MILLEALDCILPTTRTDKPLHPLQDVY KIGGIGSPVPGRVETGVLPKGPMVTFAP VNVTTEVKSVEMHHEALSEALPFDNVG FNVKNVSVKDVRHGNVAGDSKNDPPM EAAGRFAVRDMRQTVAVGVKAVIDKK AAGAKVTKSAQKAQKAK
7716	15767	A	8347	1	743	
7717	15768	A	8348	208	945	NWFKGWVKTRKDGNASGTTILEALDCI LPPTRPTDKPLRLPLQDVYKIGGIGTPV GRLETVLKPBMVVFATVNTEVEKS VENILVAPLDPCRTPFGPTRSTYKIKIG YYPDTLAFFEPISGWNDDMLEPSANMP WFKGWVKTRKDGNASGTTILEALDCIL PPTRPTDKPLRLPLQDVYKIGGIGTPV RVEITGVLPKGPMVTFAPVNGVIT*VKS AMHEALSEAHSDVNNGFNVKNV
7718	15769	A	8349	1	1434	RGITIDSLWLKFETSCKYYVTTIDAPGHDRF IKNMITGTQSADCACVLIVAAVGWGEFEAGI SKNGQTREREHALLAYTLGVKQLIVGVNK MDSTEPPYSQKRYEEIVKEVSTYIKKIGY NPDTVAFPVISGWNDDNMLEPSANMPW FKGKVKTRKDGNASGTTILEALDCILCILP TRPTDKPLRLPLQDVYKIGGIGTPV VETGV/LFVPISGWNDDNMLEPSANMP WFKGWVKTRKDGNASGTTILEALDCILP PTRPTDKPLRLPLQDVYKIGGIGTPV LEITGVLPKGMVIFAPGNYTIEVKS*VET LHEALSEAPGDNVGFNVKNVSVKDRV HGNVAGDSKNDPPMEAAGFTAQVILNH PGQISTGYAPVLDCTHTAHIACKFAELKE KIDHRSGKKLEDGPFLKLSVDAJIVDM PKGPMCEVESFSYDPSLGFVARDMROIV TVGVKAVIDKTAAGAKVTKSAQKAQK AK
7719	15770	A	835	1	321	
7720	15771	A	8350	1	1254	
7721	15772	A	8351	1	1195	
7722	15773	A	8352	1	2471	MGKEKTHINIVVIGHVDSGKSTTGHILY KGCGIDKRTIEKFFKEAAEMGKGSKFYA WVLIDLKAERERGTTIDSLWLKFETSKY VVTIDAPGHDRFIKNMITGTQSADCACVL IVAAVGWGEFEAGISKNGQTREREHALLAYI LGVKQLIVGVNKMDSTEPPYSQKRYEE MWLRREVSTYIKKIGYNPDVFVPISGW NGDNMLEPSANMPWFKGKVKTRKD NASATITLEALDCILPTRPTDKPLRLPL QDVYKIGGIGTPAGRVKTGVLPKGPMV/ VAPFAPVNGTEVKSVEMHHEALSE/AL LLGDKGAJFNVKNVSVKDRGNNVAGD SKNDPPMEAAGFTAQVILNHPSQNAR HMPLELDCTHTAHIACKFAELKEIJDRRS GKKLEDGPFLKSGDAAIVDMVPGKPM CVESFSYDPPGLGRAVRDMRQTVAVGV KAVIDKKAAGAGKVTKSAAQKAQKAK
7723	15774	A	8353	184	819	ETEIKMASRGKTTETSLKLQNLEQLDRL MQQLQDLEECREELTDDEYEETKETLE QLESEFNDSLKKIMSGNMTLVDLSGMQL AIQAAISQAFTKTPVIRLCGK/HHPVQL RPR*AEQRDRDLMVGKLERDLYTQOKVE ILTLRKLGKELTADDEAFLSANAGAIALS QFEKVSTDLLGRPPSYMNLLDHSPSKNI DVPSKISFLLKIQDQ

7724	15775	A	8354	1	387
7725	15776	A	8355	3	1022 FLASLQWVQTSSFSSEKFVITDILLKFTSV NILSKSFSVQLCSIAGGSLRPTPEIQEVKTP EELETFMLKHGENIDITLGAEVDRLEKEL KSGSLVPCIPAAAPAVTKRGOGTAPAIASV GGSPLPKPWQLPRGVGPVGAOKSRTEVWK SLPRFQRMYGKHLDQNDRSTDSLHSAP GKATDTQCOPLKAKSGLYPAELKRWS CPWLWEPTFCISVFWSDLEQLRKIRRSP HEDTESFTVYLRSDVEAKSLEVWVGSP LAREKLLRKEABIEYREKGINSATLIEF SRYLSDTRY/RTRSCAWCLKCICKIPTM ANSCSPNTCSCLLYSSPALPWTLKFA
7726	15777	A	8356	4	516
7727	15778	A	8357	1	248
7728	15779	A	8358	3	4135
7729	15780	A	8359	2	417
7730	15781	A	836	101	290
7731	15782	A	8360	43	239
7732	15783	C	8361	141	356 MSFDCCGFGTLPLLSPICCLGYSNSKVISP GLXXXXXXXXXXGALLKDWPWGPIFP GGKKFFFLFGGF*
7733	15784	C	8362	22	159 MRGVFPFLPLKXXXXPKGLKXXXXGPI MSPPKVQPFQKSQQGF*
7734	15785	A	8363	64	240 TLKFKEGGPPISPPQPKGPPFKIPRGGL *GPKKKKKNFSFPPPVKLGPKGFKRAPP
7735	15786	A	8364	19	471
7736	15787	A	8365	3	399
7737	15788	A	8366	186	840
7738	15789	A	8367	7	633 PTITNVWSETSQELADGLRGRGSQGDVSQ QNGPPRKHIVERYTEFYHVPTHSDASKK RLIEDTEDWRPRTGTQSRSFRILAQITGT EHLKESEADNTEKANNSQEPSPOLA ASTRSMPSLESDSTSGRPVGTVSLTTAAAF KPVGSTGVIKSPSPWQRPNQGVPSGRIN SAAYSGSVAPANSALGQTQPSDDOTLVQ R*PTITNVWSETSQELADGLRGRGSQGD VQVQNGPPRKHIVERYTEFYHVPTHSDAS KKRLIEDTEDWRPRTGTQSRSFRILAQI TGTEHLKESEADNTEKANNSQEPSPOLA SSVASTRSMPSLESDSTSGRPVGTVSLTTA AAFKPVGSTGVIKSPSPWQRPNQGVPS RISNSAAAGSGSVAPANSALGQTQPSDDQ TLVQRAEIIIPAGN
7739	15790	C	8368	78	386 MTHILEAQNKIKGCTGSLNMTLQRASAA PKPEPGSCSAHKSHQRVERDFSAGSRGT REEDPRVTVNTQNGKIPPKRPPRKPHCG ALYRVLSCTHFTVMPARRD*
7740	15791	A	8369	20	442
7741	15792	A	837	21	215
7742	15793	A	8370	49	354
7743	15794	A	8371	239	401
7744	15795	A	8372	141	351
7745	15796	A	8373	239	474 MRMVTTWWRGVFLATSPPRPSQLEKQ YTALYRKATSPN*FAPNCYDPQPHLG* LAPVAHVPL*QRRKAESPPSSN
7746	15797	A	8374	1	740 MVSDFIRKEDGMVNVLKLYIPNVGNVNSF AGVYLASETLPGSFAIPEATSRGAVATG TTHLASA VEPNGDSWCKQRSPRSVHVI RINTGHWVCTCCDIERNIMLSPSLNIRNNI TARLRPKTGTMPLREQRYTGIDENAHV VERRVF/RVPAHLRHRPSQLEKQYIALYR KATSPN*FAPNCYDPQPHLG* FPL*Q*RKAESPPSSN*VARGTCITS*LSKP RTVWKDPVARNRPPVGPT

7747	15798	A	8375	803	985	
7748	15799	A	8376	1	319	
7749	15800	A	8377	339	808	GSQSQQGNRGWFSVPASRGVPPPAVMG VLARARGRAGSQSPPPGCCPMLPWRWG SGATRSLGLWWETSDGLEPTPSRRWWG SS*TL/GSPFQVY*LVTPDGSSSH^KANS FCLSGDNLIGKKASFRSKQVNQLSAGS KPNNNVDGLGTVGCKVSVA
7750	15801	A	8378	588	2278	GWAHGGEACPCVPAIHLCRPSQLEKQY PVLY^KATSSN^FAPNYYPPDP^PHLG*L <sup>P</sup> PW
7751	15802	A	8379	779	986	ELQYWLCKKKPPIDRSHWKSC*AGISTS RLCQLLPKR*GSGVLPADSMMRGVUSR SAWHRSLSWSPL
7752	15803	A	838	158	955	KMTSSQEEDIEKNNSATPRQTGPATIT MNSKGQYPTQPTVYPQPGNPVYPQTLH LPOAPPYTDAPPAYSLEYRPSFWHPGAA TVFTMMSAIFPGASLYLPMQAOSVAVGPL GSTIPMAYYPVGPVPPGSTVLLGGKGG YDAGARFGAGATAGNIPPPPPGCPPNAA OLAVMQGANVLVTQRKGNFMMGSDG GYTHLVRNQGHILCAREKTSHLQHFHSQ CNCFSHINLKLQFRHMLLLGCLSGAQITFR HFSNLIRNHVMVAPP
7753	15804	A	8380	179	795	PAFFLIPGCAPPVG**IPSNPVAPAVGRSDFF SWTPYTHSPPDAGVEHFPFWTRLPWG VPAKGHQRTGATRSLGFWWDTSGCLEP TPPRRWWGSS*TLEEARSKCTE**HLTPD LPTERQTASGSQGRJ*C*RKHLS/WSKOV KQLSSAGSNPSNVYGLG/DCWM*SHCSL LNQAAQILSRPVVLGLRLGNRQEHSVPR LTRNYHSKGS
7754	15805	A	8381	1	1029	
7755	15806	A	8382	989	2798	
7756	15807	A	8383	2	396	
7757	15808	A	8384	3	1773	PGGRQQQAEGIMVQYELWAALPGASGV ALACCFAAAAVALRWSGRRTARGAVV RARQKORAGILENMDDRAORFLQNPDLDL DSEALLALPLPOLVOKLHSR&APEAVL FTVYGVKAWEVNKGTCNTCVTSYLADCETQ LSQAPRQGGLLYGVPVSLKECFTYKGQDS TLGLSLNEGVPAECDSVVVHVLKJQGA VPFVHTINVPQSMSFSDCSNPLFGQTVPN WKSSKSPGGSSGEGALI(GSGSGSPGLGLG TDIGGSIRFPSSFCGICGLKPTGNRLSKSG LKCGVYQEAVERLSVGPMDRDVESLAL CLRALLCEDMFRLDPTVPLPFREEVVTTS SOPLRGVYYETDNYTMPSAMRRAVLE TKQSLEAAHTLVPFLPSNIPHAELETLS GGLFSDGGHTFLQNKFGDFVDPCLDLIV SILKLPWLKGLLAFLVKPILLPRLSAFLS NMKSRSAGKLWELOHEIEVYRKTVIAQ WRALLDLVVLTPMLAPALDNLNPGRAT GAWSYTMNCCLDFPAGVVVPTVTVAE DEAQMEIJYRGYTFDIWDKMLQKGMRKK SVGLPVAVQCVALPWQEEVCLRFMRE ERLMIPEKOSS
7758	15809	A	8385	660	772	
7759	15810	A	8386	27	372	
7760	15811	A	8387	685	769	
7761	15812	A	8388	305	425	
7762	15813	A	8389	308	410	
7763	15814	A	839	217	491	
7764	15815	A	8390	3	501	
7765	15816	A	8391	4	318	
7766	15817	C	8392	340	474	

7767	15818	B	8393	317		702	LAEWRPREPMQRKLKVTSLEPGTVVITE QAVDTCFKAFFEQIVLGRKVRKTDLNK KLVQEJLLCSAELSEFTTVVGNTMCTLD FYEGQGRLDGALCSYTEKDQAYLEAA YAAGVRNIEMESSVFAAI*
7768	15819	A	8394	209	581		
7769	15820	A	8395	227	1302	GDSRSRVTRRQDTAWNAWSASHCRRLS ASSRSPLTGPASVGMMAATGANAEEKAES HNDCPVRLLNPNIAKMKEDILYHFNLTT SRIHFPTLFWEFKFGLFGGNPNSRMKPPF RCLGPEIGLDCPVRDYPNUCAGIDRYAM YKVGVLVSVSHGMGPISSIMLHELIKLL YYARCSNVTHIRIGTSGGIGLEPGTVVITE QAVDTCFKAFFEQIVLGRKVRKTDLNK NKLVQEJLLCSAELSEFTTVVGNTMCTLD CTLADEFYEGOGRUDGALCSYTEKDQQA YLEAAAYAARVPQLEFEMESSVFAAMCS ACGLQAAVVCVTLNRLNRLEGDQISPRN VLSEYQQRPQRLVSYFIKKLSKA	
7770	15821	A	8396	3	337		
7771	15822	A	8397	2	375	NHEKDDNSLKIIISNASCTTNWLTPLAGI HDNFGIVEGLMTTVHAITATQKTGDGPS GNGWGVMAAGLSKTSPLLLG/LKGAGG KVIPELNGKLTGMAFRVPTGNVAGVDLT CRKKPGKYDDIK	
7772	15823	A	8398	3	1141	RHEVRQSAASSFASPAEPHRSDTMGKV KVGVNGFGRIGRLVTRAAFNSKGVDIVA INPDFIDLNVMYMPYOVDSTHGKFHGTV VKAEEENGKLVINGNPITFOEPKISKIV GGDAGRLKVVVEFHIAVFTTMEKGILG ASFRCRGGAKRVNQSLPSSG*CPPCFGHG V*TEICKYDNSLKIISNASCTNCNLTPLA KVIHDNFGIVVEGLMTTVHAITATQKTIV GWLPGNGCVGVMGRGSSRTSSLPLAA AKAVGKVNPNSLNGEAEHLGMGRVPN ANVSVVDLTCRLEKPAKYDDIKKVVK QASEGPLKGILGYTEHQVVSDFNSDTH SSTFDAGAGIALNDHF/VSRLISWDNEF GYSNRIVVVDLMHAMMASKE	
7773	15824	A	8399	1	374		
7774	15825	A	84	247	287	KRGFVLPPGLECGGPIWWNGR/LRLLGLP PSGLSFPGSWDYGGLPPIGRVKIWHFLE KRGFRGVARVGSTLLTGEPPVLG*KPPF F	
7775	15826	A	840	1789	2411	KTYWRKKVEKVVSNRLVTSPCCIVTS TYGWTANMGENH*KLQALKETTSTM/G YYMASQRKHRCGKPLTSLIEYLKAKRPE GLIRTDXSWKDLWILLYETALLSSGFQ8 WKPRHHA*QVSYRMIKLAGLGLIDEQGPY LLD0TSAAVNLKELPPLEGGDDTTFHG KEVGILLLGIJRGWTLPVSVLYNSSDNIFP QGCFPLFLVNI	
7776	15827	A	8400	127	420		
7777	15828	A	8401	3	509	KNRIKKISNLENLKSLDVLDLHGQNQITKI ENIHLCERLVRVLNLRNPNFLSHVDNLNL DSLTELNRHNQITFVRDVNDLPCLOHL FLSFNNISNSFDVSCLADSSSLSDITFDGN PIAQESWYKHTVLQNMMQLRH*DMEGE FTGRRKGVWHLF*PKGGKRKEPGKS	
7778	15829	A	8402	2	384		
7779	15830	A	8403	1	430	ERGVNGVCSLEISNIQKGEGGEYMHCAVN IIGEAKSFANVDIMPQEERFVLPPEFC RSKYGFKGGRRQRTKN*FRIFEMPFRF MPICDPKIPENSDAVFKCSVIGIPTPEV WYKEYMCIEPDNIKYVISEEKGSHTLIIR	
7780	15831	A	8404	1	12064		
7781	15832	A	8405	2	383		
7782	15833	A	8406	1	1677		

7783	15834 A	8407	2	2580	GOKKLVLILNKSSDLVPKENLESWLNLYLK KELPTVVFRASTKPKDKGKNTKRVKAKK NAAPPKSEVCFGKEGLWKLLGGFQETCS KAIDGVIGFPNVGKSSINSLQEQMC NVGVIHGGLQGSQMWPPLDJKQTIIIDSP SFIVSPLNSSALALRSPASIEVVVKPMMEA ASAIFQADIVRQVVLKYTPGLQQFLW EFTTMLAQRKEVWHQKGQIPKCLEGA AKLLWSEWTGASLAYCHPTSWIPTPP YFNESIVVDMKSQGFNLLEELKNNQAQSIR GENVSLLSSAADPRVEILLPVYMGJLSFP AIKGPHFLANSILFQSSGLTNQHIEEKDIHE ELPKRKERKQEEREDDKDSDHETVDEEV DKKKLDMSGSKRRATSPSSVSGDFDDG HISVSTPGPSRKRRRLSNLTFDVPIAVCH ELYNTIRDYKDEQGRLLCEFLRAPKRRT DSEIYEADAVELQQPFKIRDELCKNGEILL SPALSYTTCVHLHNDEVEKERKEKLPKIEEE DEKLKREEEKRVBEGIIORLHYCCTNPDSPK YPAQRTPOQHQLQGEVLFYYESKERTLEEV VVLDTIIISINOPDYVEVVSOPIDLNMKIQ QKLKMEHEYDDVNLLTADPQLLFNNAKS YYKPDSPEYKAACKLWDLYLTRNEFV QKGEADEDDDEDQGDNQGTVTEGILL ISITQKIRPVVILFHGYESWNLLRADQRLL FAKSWPRASTRYQGHHQDLFILRSDSLPSQ VFIRDKLMERRNRRTGRTEKARIWEVTD RTVRTWIGEA VAAAADGVTSVPT HTFRHSYAMHMLYAGIPLKVLQSLMGH KSIISTEVYTKVFALDVAARIHRVQFAMP ESDAVAMLQLS
7784	15835 A	8408	2	259	
7785	15836 A	8409	1	257	
7786	15837 A	841	225	336	
7787	15838 A	8410	3	365	
7788	15839 A	8411	2	243	
7789	15840 A	8412	2	339	
7790	15841 A	8413	2	182	
7791	15842 A	8414	2	381	
7792	15843 A	8415	59	572	SGRPFFFFFSATGACLFPPGPGRGLAEY RQRHWGTVVWHGLEGRGLGSNREGCA RACRDWSHSPRTERGPGSHGGITSARLG TGTGERLRCGVQGLVGMGRPVDRAC* SVLEPGGTPGRANWALDVEKLGNKY*E NKSLLWVSRP/RQRCDCRQDRPWERPRLQ VTPIARQ
7793	15844 A	8416	3	1735	
7794	15845 A	8417	2	441	
7795	15846 A	8418	412	569	
7796	15847 A	8419	2	2812	RGLAVFISDIRNCKSKAEIKRINKELANI RSKFKGDALKDGYSKKKVYVCKLLJFJFL GHIDIDFGHMEAVNLSSNRYTEKQJIGYL FISVLVNSNSEIRLNNAIKNDLASRNPT FMGLALHCTASVGSRMEAFAFAGEIPKV LVAGDTMDSVKQSAALCLLRLYRTSPD LVPMDGWTSRVVHLLNDQHLGVVTA TSLLTLLAQKNPEEFKTSVSLAVSRLSRIV TSASIDLQDYTYYFVPAPWLSQLLRLL
7797	15848 A	842	610	834	
7798	15849 A	8420	2	397	
7799	15850 A	8421	3	438	
7800	15851 A	8422	3	354	
7801	15852 A	8423	3	339	
7802	15853 A	8424	1	338	
7803	15854 A	8425	1	70	
7804	15855 A	8426	62	374	

7805	15856	A	8427	2	374	
7806	15857	A	8429	1	342	
7807	15858	A	843	36	351	
7808	15859	B	8430	212	587	MGKGSKYAWVLDKLKADRERGJITDIS LCKFETSKYYVTIIDAPGHRDFIKNMIG TSQADCAVLIVAAVGVGEFEAGISKNKGOT REHALLAYTLCVKQLIGGVTKMDSTEPP FRRKRYEEIVKGX*
7809	15860	A	8431	1	1386	
7810	15861	A	8432	66	1574	KSLTPLPKPWESVKTTHINLAHIGHWDSG KSUTTGHLIVKCGIDTKHNHLKNLTEKA AEMGKGSFKYAWVLDKLKAKERERGJIT DISLWKFETSKYYVTIIDAPGHRDFIKNM MITGTSQA*PGLGGPLFGC(SPLIVAAVG VGEFEAGISKNKGOTREHALLAYTLCVK QLIVGC*OKWDSTEPPTAQKQLKIEKV K/EKVSTFI*RFKFGYNPUDTVAFVPNPLV WNNGDNMLGAQVFNMPWFQGDGKVTR KDIGNASGTLLWRALDCILP*PTRPTDQ APLRULPFQDVLPKIGGYLTGFWLVWPE WETGVLRNPGMGVTFAPVNVTTEVKS VEMMHEALSEALPGDNVGFNVKNVS KDVRRGNVAGDSKNDPMPMEAAGFTAQ VIILNHPGQISAGYAPVLDCHTAIIACKF AELKEKIDRRSGKKLEDGPKFLKSGDAA IVDMVPGKPMCVESFSYDPPGLRFAVRD MRQTVAVGVIKAVDKKAAGAGKVTKS AQKAOKAK
7811	15862	A	8433	2	265	
7812	15863	A	8434	3	318	
7813	15864	A	8435	2	896	VGPRGMWRAGSMSAELGVGICALRAVN ERVQQAVARRP/RGDLPAQPRLLVAVSK TKPADMVIEAYGHGQRFTGENYVQELA LEKASINPKILSLCPEIKWHFIGHLQKQN VNKLMAVPNLFMLNETVDSV/KLADKV NSSWQRKJGSPERLKVMGPQFNTSREI YLSFSVSLEGGKHGUPPSETIAVEHINAK CPNLJEFVGLMTLQSFQGHDLSQGPNP FQILLSLPEETVVKSK*RIPADQVELSMGL SADMOHAVEVRSTDJVWIRSTVFGEPDY SKPTPDKCAADVKAPEVAQE
7814	15865	A	8436	202	349	
7815	15866	A	8437	1	129	
7816	15867	A	8438	3	387	
7817	15868	A	8439	505	693	
7818	15869	A	844	3	259	
7819	15870	A	8440	46	3454	AGESIMDTDLVYDEFGNYIGPELDSDEDD DELGRETKDLDEMDDDDDDVVGDHD DDHPGMEVVLHEDKKYYPTABEVYGP VETIVQEDDTQPLTEPIKPKVTKKFTLME QTLPVTVYEMDFLADLMDNSLNRNVTL CGHLHHGKTCFCVDCLIEQTHPEIRKRYD QDLCYTDILFTEQERGVGKISTPVTVVL DTK.GKSYLFNIMDTPGHVNFSDEVTAGL RISDGVVI.FIDAAGVMLNTERLIKHAV QER
7820	15871	A	8441	2	639	
7821	15872	A	8442	60	345	
7822	15873	B	8443	26	384	MHHEALSEALPGDNVGFNVKNVS KDVRRGNVAGDSKNDPMPMEAAGFTAQVII HPOQISAGYALWIAIVDMVPGKPMCV ESFSYDPPGLRFAVRDMRQTVAVGVIK VDKKAAGLAS*

7823	15874	A	8444	33	99	KLPLKAKMGKEKTHINIVIGHVDSGKS TTTGHJYKCGGDKRTKEFEAAEMG KGSKFYAWVLDLKLKAERERGIFTIDISL KFETSKYYTTIDAGPHRDIFKNMITSQT QADCAVLIVAAVGGEFEAGISKNGQT EHALLAYTLGVKQLJVGVNKSDETEPPY SQKRVEEIVKEVSTYIKKIGYNPDTVAFV PISGWNGDNMELACSNMPWFKGKMWK TRKDGNASGTTLEALDCILPPTPTDK PLRLPLQDVKYIGIGTVPVGRVETGV KPGMVVTFAVPNVNTTEVKSEMHHEA LSNEALPGDNVGFNVKKCVVSRMFRGN VAGIDSNDKNDPPEMEAFTQAQVILNIPS QKNAHARHMPLEJDCTHTIAACKFA**R'K RFDRRSVGKLLEDGP**NSLKSQ*CWPLV DMVPWASPMCV*EAQSDYP*PLGRFWWP RYMRQTAJRLGVQNQQLDKBAAAGVAG KVHQSLAQKA*PKPKWERKRKLSTLSSLD T
7824	15875	A	8445	2	442	
7825	15876	A	8446	76	413	
7826	15877	A	8447	524	954	
7827	15878	A	8448	3	206	
7828	15879	A	8449	3	206	
7829	15880	A	845	3	661	
7830	15881	A	8450	3	327	
7831	15882	A	8451	56	324	
7832	15883	A	8452	33	159	
7833	15884	A	8453	2	494	
7834	15885	A	8454	130	716	LFARLPEAIPWRQKGESSAQIRLEPPSRA QGETGFSQLGPDTTHSRFWWWLGL/CG EGWAGIPLCFSPSKRYNTPIRDFLQPLP TQGQNKKKTNRSSQTLPVIEKPLSSL**KLL PSLRERE*LFJGLCVRARAPSGSLLISLGLA QACPQ/GLPCCLCYPLCLRPGQGDFPNQPR PQHPFSPQKPPSFPHGSYVESLF
7835	15886	A	8455	1	578	GGRSVLPVDPVRVSHPSMTNGTGLSAG LDAQSQTTSHELTPNDLGIIGRQGAKI NEIRQMSGAQIKIANPVEGSTDROVTITG SAASISLAQYLINSLENAKPSSQAASTVII PDHLSINLSQPSTPSSSFTTTSPLSATAG TSDAPSSLNPSPSDRPLCLQSAWHETHP PSPPRPLLPAUTPAPTPLL
7836	15887	A	8456	2	875	ITTLAGPTNAIFAKAFAMIIDKLEEDISSSM TNSTAASPRPVTLRLVVPASQ/CGSLLGK GCKIKEYTRYRGFGRSKVAGDMLPNLT ERAIIITAGIP/QSIIIECVKQICVVMLETLSQ SPPKGVITPYRPKPSSPSPVILQGGQPYIT OCQYAIIQPQDLTKLHOLAMQOSQSHHPMT HINTGIOWHLNPAASPRGSQWSAHLGJ ASAQTTSWSNPPNGFD WAGIIAGFKG AKINEIRQMSGAQIKIANPVEGSTDRO VNTTGSAAISPGVNHINVRISSETIGGM GSS
7837	15888	A	8457	3	376	HESGLGGGGVMLVHDIRRNESHLDIFRE SAPGGLAREETLQRSWESTPKGVLVPGV MKVGLHEAHOLYGRGLPWSQVLAFAAAA VAQDGFNVTIDLARALAEQLPPNMSER FRETFLPFGRPLPLGS
7838	15889	A	8458	1	1965	
7839	15890	A	8459	4	267	
7840	15891	A	846	33	382	
7841	15892	A	8460	10	464	TGPVAMGRVIRGQRKAGSVFRAHVKH RKGAARLRAVDFAERHGVIKGIVKDIH DPRGRAPLAKVFRDPYRFFKRTELFIA AEGHTQFVYCKOKAQLNIGNLVPVGT MPEGTIVCPVISKKVISSANRAVVGVVA

					GGGRIDKPIKLA
7842	15893	A	8461	5	807 TGPVAMGRVIRGQRKGAGSVFRAHVKH RKGAARLRAVDFAERHGYIKGIVKDIJH DPORGAPLAKVFRDPYRFKKRTELFA AEGIHTQFVYCGKKAQLNIGNVLPGT MPEGTIVCCLGGEAWKTRGKLARASGN YATVISHNPETKKTRVLPGSKKVISS ANRAVVGVVAGGWPELTNPSSLKAGRA YHKYAK/RQRNCWPURRGVAMNPVE HTTPGGGQ/HPKHIASPPTIRRDAP/AGRKV GLIAARRTGRLRGTKTVQEKEN
7843	15894	A	8462	11	349
7844	15895	A	8463	305	676 RSKSDSAADLPSRRARLSGTGEKASENK GDPUHL*ADGGFPVPLEDSLCM*FPAWAS SPSAALSIGLTQVQAGLQGLPWAPWWVP LGSTGRRSSGELESEAGYLSTSSTDGLL GSFKEGCCSC
7845	15896	A	8464	352	784
7846	15897	A	8465	3	381
7847	15898	A	8466	1	233
7848	15899	A	8467	3	356
7849	15900	A	8468	2	374
7850	15901	A	8469	2	482 KFQNALLVRYTKKVQPVSTPTLVESRN LGKVGSKCCKHPEAKRMPCAEDYLSVV LNQLCVLHEKTPVSDRVTKCCTESLVR RPCSALEVDETYVPKEFNAETFTFHVK HKPKATKEQLKAVMDFFAAFVEKCCA DDKETCFAEFGKLVAASQAAL
7851	15902	A	847	21	371 ASPDAMGHFTEEDKATITSLWGKVNVE DAGGETLGRLLVVYPWTQRFDFSGNLSS SASAIMGNPKVKAAHFENFKLLGNVLVT VLAIHFGKEFTPEVQASWQKMVTGVAS ALSSRYH
7852	15903	A	8470	2	435
7853	15904	B	8471	73	384 MFLYEYARRHPDYSVVLRLAKTYETT LEKCCAAADPHCYAKVFDKFLLVVEP QNLKQAWRVQIPCAISLHQESTPSVN SNSCRGLKKPRKSGQQML*
7854	15905	C	8472	11	475
7855	15906	A	8473	1	608
7856	15907	A	8474	1	593 AKYICENQDSISSKLKECEKPLLEKSHC IAEVENDEMPADLPSLAADFVESKDVK NYEAAKDVLGMFLYEYARRJPDYSVV LLRLAKTYETTLEKCCAAADPHCYAK VFDEFPVLEEPQNLKQNCLEFQLGEY KFQNALLVRYTKKVQPVSTPTLVESRN LGKVGSKCCKHPEAKRMPCAEDYLSRG PRTSRMFAKTMLRQRMSSWAC/CLYEY ARRHPDYSVVLRLAKTYETTLEKCCAA ADPHCYAKVFDKFPLVVEEPQNLKQ NCLEFQLGEYKFQNALLVRYTKKVQP VSTPTLVESRNLGKVGSKCCKHPEAKR MPCADEDYLSPRG

7857	15908	A	8475	1	1428	MKWVTFISLLFLFSSAYSRGVFRRDAHK SEVAHRFKDLGEEENFKALVLIAFAQYLQ QCFFEDHVKLVNEVTEFAKTCVADESAE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQPERNECFLQHQHKDDNPNLPR VRPEVDVMCTAFHDNEETFLKKLYYEIA RRHPYFYAPELLFAKRYKAATTECCQA ADKAACALLPKLDELRDEGKASSAKQR KCASLQKFGERAFKAWAVARLSQRFPK AEFAEVSKLVTDLTKVHTECHGDILEC ADDRADI.AKYICENQDSISSKLKECEK PLEKSHCIAE/HRNILGKVGSKCCKHPEA KRMPCAEDYLSVNLNQLCVLHEKTPVS DRVTKCCTESLVRNRPFCFALEVEDETYY PKFENAETTIFHADICTLSEKERQIKQT ALVELVKHHKPKATKEQLKAVMDDFAAF VEKCCKADDKETCFAEEGKKLVAASQA ALGL
7858	15909	A	8476	1	748	
7859	15910	A	8477	1	1515	
7860	15911	A	8478	1	2931	MKWVTFISLLFLFSSAYSRGVFRRTPLGP ASSLPQSFLLKCLEQVRKXQGDGAALQE KLCATYKLCHPEELVLLGHSLGIPWAPL SSCP\$QALQIAGCLSQLHSGLFLYQGILL QALEGISPELGPLTLDLQOLDVADFATTIW QQMEELGMAPALQPTQGAMPAPASAFAQ RRAGGVLVASHLQSFILEVSYRVLRLA QPQGGGDAHKSEVAHRFKDLGEENFKA LVLIAFAQYLQQCPFEDHVKLVNEVTEF AKTC
7861	15912	B	8479	1	6124	MKWVTFISLLFLFSSAYSRGVFRRDAHK SEVAHRFKDLGEEENFKALVLIAFAQYLQ QCFFEDHVKLVNEVTEFAKTCVADESAE NCDKSLHTLFGDKLCTVATLRETYGEM ADCCAKQEPGRNECFLQHQHKDDNPNLPR LRPEVDVMCTAFHDNEETFLKKLYYEI ARRHPYFYAPELLFAKRYKAATTECCQA ADKAACALLPKLDELRDEGKASSAKQR LKCASLQKFGERAFKAWAVARLSQRFP KAFAEV
7862	15913	A	848	24	474	
7863	15914	A	8480	241	348	
7864	15915	A	8481	2	191	
7865	15916	A	8482	3	370	
7866	15917	A	8483	1	351	
7867	15918	A	8484	44	454	
7868	15919	A	8485	200	408	
7869	15920	A	8486	1	110	
7870	15921	A	8487	48	462	
7871	15922	A	8488	1	721	MHWGVGFASSRPCVVDSLWNQSISFG WWAGSEEPSFYGDIIAFPLODQYGGIMA GLGSDPWWKKTLYLTGGALLAAAAYLL HEILVIRKQOEIDSKDAILHOFARPNNG VPSLSPFCLKMETYLRMADLPYQNYVFGG KLSAQGKMPWIEYNHEKVSGTEFIIDFLE EKLVNLNKNLNGPHIERAISRAVTKMEVE HFYIALSWRWWYHPVPTCPLQKFLQFVVRQ LMLFMRTPSPSALPGH
7872	15923	A	8489	3	785	
7873	15924	A	849	24	415	
7874	15925	A	8490	5	302	
7875	15926	A	8491	1	2086	
7876	15927	A	8492	3	2011	
7877	15928	A	8493	305	505	

7878	15929	A	8494	3	1588	EEDDYDVYKSEFPTEADLEDFTEAAVDE DDEEEEGEEVVEDRDYYDITFKGDDY NEENPTEPGSDGTMDSKEITHDWKA QEAMTGPRAVMPRWYFDLSKGKCVRF IYGGCGGNRNNFESEDYCMAVCKAMIP PTPLPTNDVDVYFETSADDNEHARFQKA KEQLREIRHRNRMDRVKWEEEAELQAK NLPKAEROTLJQHFQAMVKALEKEAASE KQLVETHLARVEAMLNDRRRMALEN YLAALQSPPRPHRILQALRRYVRAEN DRLHTIRHYQHVLAVIDPEKAQAQMKSQ VMTHLHVIEERRNQSLSSLYKVPVVAQ EVQEEDIELLQEQRADMDQFTASISETPV DVRVSSDESSEEIPPHFPHPPALPNEG SGVGEQDGGLGAEEKVINSKKNKVDEK HGPINETLDVKEMIFNAERVGGLEEEERE SVGPLREDFSLSSSALLGLLVIAVAAITV IVISLVMRLRKRGTYGTISHQIVEVVDPML TPEERHLNKMQNHGYNPETYKYLEMQM I
7879	15930	B	8495	73	1845	MAATGTAaaaATGRLLLLLVLGTLAPA LALAGYHEALAANAGTGFAVAEEQJAMF CGKLNMHMVNQITGKWPEDPTGTKSCFET KEVLQYCQEMYPELQJTNVMEANQRV SIDNWCRDXQCKCSRFTVFFKCLVGEF VSVDVLLVPEKQOFTHKERMEVCENHQH WHTVVKEACLTQGMQTLYSVGMLLPCG VDOFHGTEYVCCPQTKEIJSVSKEEEED EEEEEEEDFEEEDYDVYKSEFPTEADLED TEAAVDEDDEEDEEGEEVVEDRDYYD TFKGDDYNEENPTEPGSDGTMDSKEITH DVKAFCOSQAMTGPRAVMPRWYFDL SKGKCVRFYIYGGCGGNRNNFESEDYCM AVCKAMIPPTPLPTNDVDVYFETSADDN EHARFQAKEQLEIRHRNRMDRVKCEW EEAELQAKNLPKAERQTLQHFQAMVK ALEKEAASEKQQLVETHLARVEAMLN RRRMALENYLAALQSPPRPHRILQALR RYVVAENKDRHTIRHYQHVLAVIDPEK AAQMKSQVMTLHVIEERRNQILSLLYK VPPVVAQEQEEDIELLQEQRADMDQFTA SISEHPCGRPGEL
7880	15931	B	8496	55	274	MADANKAEVPGATGGDSPHLQPAEPPG EPREPHPAAEAKQFQPHSSSSNGVKME NDESAKEEKSDLKEKSTGX*
7881	15932	A	8497	3	754	FLFEPHPAEARKKQQPQHSSSSNOVKME NDESAKEEKSDLKEKSTGSKKANRFPHY SKDKNSGTGEKKGPNRNRVFISNPYDM KWQAIKDLMRKEVGEVITYELFKDAEG KSRGGVVEFKDEFVKKALETMNKYD LSGRVRVNIKEDPDGENARRALQRTGTSF QGSHASDVGSGLVNLPSSILNNPNPIPVEV SNLQAGRGLGSTIFVANLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDQGSRGMGT
7882	15933	A	8498	2	346	
7883	15934	A	8499	1	414	AWHEETHKVDLGLPEKKNNKKVVKKEPE TRYSVLNNDDYFADVSPLRATSPSKSV HQAPAEMLPVKKKKKKKKWVSAALGKE VKRSQSKLRLRNITS*VMTLRPQKR*R'S SNLQAGRGLGSTIFVANLDFKVGWKKLKE VFSIAGTVKAGRYKEDKDQGSRGMGT
7884	15935	A	85	2	526	RGGCDRDGPFSASSPLAMASLTVKAYVLL GKEDA A A IRRFSLCCS TEPE QAEVAA GPGCERLLIRVAALFPAVRPGFG QAHY RDEGDGLVAFSSDELTMAMSYVKDDIF RIYIKETNECLAIDHRPPDAHERA/PRNM VHLNEICDG*NGPVAGTLYMCSCFCPYYY LCTPFNV

7885	15936	A	850	24	432	APSPDAMG/HSLWGKVNVEDAGGETGL RLLVVYVTPWQRFDSFGNLSSASAAMGN PKVKAHGGVLTSLGDAIKHLDLKGIF AQSELHCDKLHVDPENFGLVNLGVNHG KEFTPEVQASWQKMTVGASALSSRYH
7886	15937	A	8500	1	1977	MVEDFKIRKVGOWTLOEHPSVFLVJIE ETHPNKPSTAVEESIHSRDTVMVNFPQ CQLDWSKGYLEAATLKINISCSHIRFLD GSVTCHDETGSRSRDAERTVGIVGRVND ESEVEPGRPRGRSRNPRGWAGDSKSWT GSSRRSWSRGGEISPITGMITKTHFWYL GLPEKKKKRVRKEPETRYSVLNNDDY FADVSPLRTSPS*DVVAHQGAPEMPLVKK KKKKKKKGVSTLCCEEHHPETLPAARRT EKSPSLRKQVFGLHEFLARGRKRNKSP AMSHASGVKTSQDPRQEAEETRVGKK SKKHKEKEKGPGPHSLPVQDPWFCEA REARDVGDTCSVGKDDDEQAALGQRKKR RKSPREHNHGVRKKKKHQQEGDALPGH SKPSRSMESSPRKGSKKPKVPEAPEYIP ISDPPKASAKKKMSKKKVEQPVIEEPA LKRKKKKKRKESGVAGDPWKEVVFPSE MDPAVGELRETDIDLEVVLEKKGNMDE AHIDQVRRKALQEEIDRESGKTEASESET KWITGQFQGQWDTAQPENEDQKLKFRL MGGFKNLSPFSRPASTIARPNMALGK AADSLQNLQRDYDRAMSWKYSRGAG LGFBTAPNKIFYDRNASKSVKLED
7887	15938	A	8501	2	376	TAGFLLPQGLPCVKHYLMGHSILHMNPVW RRTTREPPLKDAPENTRSLMWEVKRS SSGPWFVKSNIACBZCIPFRITSSAYD/W PTHSI**FSGIIPCPCHGCHQPFQSQDMVIT EPLCOLPAHLH
7888	15939	A	8502	2	956	
7889	15940	A	851	323	737	
7890	15941	A	852	24	589	
7891	15942	A	853	100	684	
7892	15943	A	854	135	851	APSPDAMGHFTEEDKATINTSLWCKVNV EDAGGETLGRLLVVYVTPWQRFDSFGNL SSASAAMGNPKVKAHGKVKVLTSLGDAI KHLDLKGIVTAQAA*SELHCDKLHVDP ENFKLGGCAQDPLAIPSAKEFTPGG CRLPGQKDQ*LGVQOCGPDPDITEAQLP MNAELFKDGMALFQIAITNKSISAKRSN FKLLGNVLVTLAHFKEFTPEVQASW OKMVTGVASALSSRYH
7893	15944	A	855	40	505	QPQTVISLHATPSCAVTALWGKVNL EVDEALGRLLVVYVTPWQRLLESFGNL STPDAVMGNPKVKAHGKVKVLFAGAFSDG LAHDLNLKGFTATLSLHCDKLHVDPEN FRILLGQRAWSVLALPITFGKEFTPPVAG LPIRKLVAGVANALAHK
7894	15945	A	856	41	536	APSPRPRWGHFTEEDKATINTSLWGKVNV VEDAGGETLGRLLVVYVTPWQRFDSFG GNLSASARMGNPKVKAHGKVKVLTSLG GDAUTKHLDLKGIVTAQAA*SELHCDKL HVDPENFKLGGVNLVTLAIPPSAKEF TPEGCRASWAERWTWSWPVCSSRYH
7895	15946	A	857	241	435	
7896	15947	A	858	243	449	
7897	15948	C	859	275	397	MLCWLKLGVIHYSGNNIELGTAMRENT YRVLHTGFLIDPG*
7898	15949	A	86	285	326	NLPKILGHQTKRQLQSTRS WKRMMMLSIN LQIIYNPVIFVGTIPDHDFVS*IVRGP VSSDANYIQYDL*NPNKSLSV
7899	15950	A	860	2	424	

7900	15951	A	861	73	608	SVMTPVAPTLKAASKSDSSGPHRLRENPPWCLSPADKTNVKAAWGKVGAHAGEYGAEL\ERMFLSPTTAKTYPPHFDSLHSIGAQV*GATGK\KVA DALTNAVAHVGRTPNALSPEATLJIAHKVLRGPGSTFKLL\SHLPCLGEPAHLPGRVSPLGCKASLTNFNGFLIKQPC
7901	15952	A	862	7	330	
7902	15953	A	863	2	379	
7903	15954	A	864	3	722	HERGSVSCFNSGWTDHIRGHFLFQPPTEL RPLPLRLOPPGPSSRSRSPASGTCOHQFLWL APCSQPTMSSQIRQNYSTDVEAVNSLV NLYQASITYLSLGFYFDRDVDALEGGV HFRELAEKREGYERLARLMQTQRGRR ALFDQDIKKPAEDEWGKTPDAMKAAL EKLKNQALLDLHALGSARTDPHLCDFLE THFLDEEVKLIKKMMDHLTNLHRLGGPE AGLGEYLFERLTLKHD
7904	15955	A	865	40	264	
7905	15956	A	866	3	1231	
7906	15957	A	867	3	496	
7907	15958	A	868	1121	1442	
7908	15959	A	869	2380	2714	EETEGQARWLTPVPTLWEAEAGGSPERVGSRPA*PPLSAFLYPAFFLRSARFL
7909	15960	A	87	133	392	LITIYYIPENCQPGQHQSETSSL/LKKIKKLA GCGGTHL*SQLGRLRREDYLSPGGQICSEPSYHCTPAWVTQGDPA SKKKKKKKKR
7910	15961	A	870	3260	3533	
7911	15962	A	871	6330	6802	RSKGRAKIKSRRAGQVQWLMPVIPALWEAKAGGSPEARSL*PAWPWI*NPALHSSL/V**SKALSQKOKKQKKNNGHDGQHDETVSLLKIQKSAGAHL*SQLREAEAGELLEPRRQTLQ*AEILPLHSGLGDKSKTPSQKKKKRSQGQGVVRPQGP
7912	15963	A	872	1	500	
7913	15964	A	873	63	375	
7914	15965	A	874	27	374	
7915	15966	A	875	1	801	
7916	15967	A	876	1286	1388	
7917	15968	A	877	1	1056	
7918	15969	A	878	651	1467	
7919	15970	A	879	3	414	
7920	15971	A	88	2	359	EVLRMAGTOLVAVEVVVVDALPDFFEGY EGPGGREAAAALVEDETRTRYRPTMNYSYLTSPDYSAFETDILNNNDSERLAAQPM*LLTMKLYYLSSPSCGHYFVLLHYNC LSLYFPSP
7921	15972	A	880	164	412	
7922	15973	A	881	29	489	
7923	15974	A	882	44	847	IKENSFIWIRASITTYLKGETIGTEPEGKGEGECASTGLVNPRDFPPSKWSFPKIPV*TSLHUTPLAIVCPFONIWSLHGKGORGKGQNIKRETKNKNNTL.FREPQKNPQPIFF*TTQGHNEVKSLSTSVP!*ITGRKA*STQSL*QEFTLEASEHAEADG(ALLRVLPLPSWRA PSGVGTVKSRFSH/VPRDHQPTITHWWP WWSMAGRQRSPSILSHFLSWMTSCLGP SHFRRELAFWKPTIPHIHTRQSAHILVP LVFKGHFQQTL
7924	15975	A	883	40	431	
7925	15976	A	884	122	341	
7926	15977	A	885	23	419	

7927	15978 A	886	1	598 LARNPGSTHASGGILLGRQCWVLFMAP KAAFKKRAGGANSNVFSMPEQTQIQLFEK EAFTIMDQNDRGDFIDKN\DLRDTFACPW RKLNVKNEEIDEIMKEAPGPINFTVFLT MFWRGRNLKGADPEKGPKFLNRISKVFDPE GKGVAEGLDYVREMLNNAGRRGFPRKE VIDOMFAAFFFFVTGNLDYKVLNHLVHITH GEEKD
7928	15979 A	887	174	452
7929	15980 C	888	60	245
7930	15981 A	889	1878	2295 SFSPA WPSRW CASSSWCTDCLVPSTCAA LQHPVVFLDKGNHFLIFYF YFFFVILYTSS SHEVED*PCVMFSKIKWYLLE/VRYLIVV AYRLSFCKERKKTIKLCQIILCLAAARTW LPLCLSLPPLFLSCLCMDFFEKK
7931	15982 A	89	69	342 VGNMSGTINLDGNDDEFDEQLRMLELYGD GKDGTTLTDAGGEPSLQGYSTDNTPE WDLDI*A WFFMISEYFLFTLVQFM AFL LYCGFMFI
7932	15983 A	890	3218	3469
7933	15984 A	891	618	1236
7934	15985 A	892	12	138
7935	15986 A	893	1	1002
7936	15987 A	894	66	293 RLRLFRFFCPTGCSLDVVLSLFS*GCGFL*S LHTGFMPSPFEPWPQDSL SVQIVTNFSWR FSSAVAFSSASGSIPQGS
7937	15988 A	895	2202	2335
7938	15989 A	896	343	906
7939	15990 A	897	1455	1604
7940	15991 A	898	370	807
7941	15992 A	899	1	1548
7942	15993 A	9	1130	1377 ASHLRSGVRDQPEQHGETPLALKIQKSP GCGGRHL*SQLPGLRLQENHNLNGGG CGELRSHHCIPAWVTE TLT KKKKKKKR
7943	15994 A	90	144	2205 DRERCRCHPFKRALIMP/LRPAEP RPAFPPIH HPLLPGQDANE/PGCWA EA VQGCP T/AE DPPCVSRAAPGGSVPPFC/PGRLL*WGWG PRKGKDPEGLADSGPPCELRFEEESRPPR VVGESPAEKLAYPPGLCFC*PFSEF/PE L*TK SPS*EMTNHMLHSGGGGSWPGPS SPGPPPGSLSLRAAALPPKTPGQTRAPAG AGCPHADLAMSPGPTPGSPSPVAPTSLSVA DCSSQNV*HPRVPEPTQAAATPVQFFKVN TSPGCQSPPKQP/APVPPVPMYNN/MPRVT EPAQAATPESLGHVPELRSTQTVA TASP GHILT PMKTGLSAREIPEVGTGPPWCPV PPPSPPLPLCPAPRGSAAGGLTLPLRASQTS GSTFLIJSPFCKLTSPPGLVQGTPAGG RSVCTVQGVVSEERGTSVQOLLHLPVP LCPLLSKGQVMAPIAGL/ I QCSGPPVQW GDPRTPP*CJQPQVQVYCCD/VLPALLCR FPGAAPQRIPHEWACPALAECLCALRQ VPRAGQPG*TMCGAGTGP GCGWKGQK EAGGRCEKLPTPLNLTALPAPAGPCSQL PLSHGWPGLIPSPH*DSROGGPDP/ASPS QWLRKPPNPTMGLRKPRK*LIPASPKR LRPKKAASLPVRJPKASL GCS*EGLIWA LP*GPWPCRKWGPLGALGGTWQPPRHPGP VLSIRA*GLQPOPLTK
7944	15995 A	900	3	127 VLCQFSKGMLPVFAQS V*YWLVWVRYVP SIPSLLRVFSMKGC

7945	15996	B	901	1	1926	MFSDSLTPMHKERIVTLLKREGHVVGFMDGINDAPALRAADIGISVSDGAVDIAAREAADIILLESLSMLVLEEGVIEGRRTFANMLKVIKMTASSNFGNVFSVLVASAFLPFPLMPPLHILLIQNLLYDVSVQVAIPFDNVNDDEQIQKPQRWNPNADLGRFMIFFGPISSIFIDILTFCLMWWVFHAUTPEQTQLFQSOWFWVFLGLSQTIVHMIRTRRVPIQSCASWPLMIMTVIVMIVGIALPFSPLASYLQLQALPLSYFPWLVAIALGALTNSRFDLNHLHVFRQTGDNFARTCREGGVVFGEEGFASGFDDRFYVIQRLTCLCSDVCKYFARFRIVRDLTGDDDHIAQINXLYVRPIAAGPAGPTFRLWHSSRRAMILLTRADMEDERFLNARDTLRLALLDNIVPVINENDAVAATAEKVGNDNLDLSALAAILAGADKLLLTDQKGLYTADPRSNPQAELIKDVGDDALRAIAGDSVSGLGTGGMSTKLQAADVACRAGIDTIIAAKSKGPGVIGDVMEGISVGTFLFHQAATPLENRKWFIFGAPPAGEITVDEGATAAILERGSSLPPKGISVTGNSRGEVIRJCNLEGRDIAHGVSRYSRNSDALRIA GHHSQEIDAILGYEYGPVAVTVMHDYR*
7946	15997	A	902	1	1602	
7947	15998	A	903	1	972	
7948	15999	A	904	280	358	
7949	16000	A	905	141	152	QCOPPQPRPPGRCPPTPSQSGHTGCSTGG*GLNPLYNNLCDRSGAWGIVLEAVAGAGIVTTFVLTIILVASLPLFVQDITKRSLLGTQLRGCHHTAGIMGSC
7950	16001	A	906	177	247	
7951	16002	A	907	574	737	
7952	16003	A	908	221	576	GVGGDTHDTHPNTGREGGPSRSGAHVA GPARGRRSLESPLPGARSSGPSNPNTASP SPPLTOSHT*GPKPRESSCRSLSRVAAW WLWAETIVFKPAGRSSWHCPSPWLLAVARGRMMMS
7953	16004	A	909	1	157	TKTWLKKHFVGYPNTNSDFELKTAELPP LKN/GRVAAKRLKEGDTMMGQQVAK
7954	16005	A	91	122	874	SPLITLLGRQKJFNFWEWGGGSIKPKLTFS PARQGGGGPFSSSSPSSSPES*LFPALRT PSROGGSAIPSASGLSTPACVPSGSTRLN FHAPHFVGRVSLLPAS*KAAGPSKKGP QVNP*A*FRKPGVGI*RSVGPQLPLE*LH ARKNРАGPVPPLGLKEGPSSLQGPKERTQ LASLIMEGPPTHPTIHDTGTTAQPELWPC RGPMQMSWGSGPHEHTFGPRQPHPPHSS RHRSDSESSLLLQASAHPGKA
7955	16006	A	910	3	484	VRLREDDRRGPGLSTCHKSDPGRPAQSQ QPSSPGSGTFGLLSFRMVRTKWTLLKKH FVGYPTNSDFELKTAELPLKLNQEVILIE ALFLTVDPYMRVVESENVALPKGTIVL SPGWTTTHSISDGKDLKEKLTEWPDTIPLS LALATVGMGPLATAYFGILLE
7956	16007	A	911	1	1147	MLLCQKAPSLSKTTYNHPPAADSAGTAL NLETTVKQTRETOLEYYNNVGTDLSPPEK SFNYPLLSSSDQFEIOLNQQLWSLIPNN DVRRLVSHVIRTLKDCTETHLQLACAK LISRTGLLMKLLSEQQELRTVSMTAWK RMNKRKSRSRMRQSH/ASHAGRWWHNH STLQPSQSKLQMAELSEARRSFRMVR KTWTLLKKHFVGYPNTNSDFELKTAELPL KNGGLEFLIAYGMLYFVEVLLAEFLFTV DPMYMRVAAKRLKEGDTMMGQGVAKV VESKNVALPKGTVLASPWTTHSISDG KDLKLLTEWPDTIPLSLSALGTVGMPGUL TAYFGILLEICVGKGGGETVMVNAAGAV GSVVGQIAKLKGCKVVGAVGSDEK

7957	16008	A	912	214	540	
7958	16009	A	913	495	684	
7959	16010	A	914	1	1911	
7960	16011	A	915	3	1381	KTPFVGQYHQRPKVDKTKMGRNQSRRK AENSKNQSTSSPPKDRSSLPAQEWSWTE NDFDELTEVGFRRSAITNFSELKEHVLTR RKEAKNLEKRLDEWLTRLTRNSVEKTLNDL MELKTMAQELRDARTSFNS*FNQVEKRI SVIEDQIDEIKQDDKAETCNWRWVSES LRQLRASVIAFHARASHYNAQECLHQI AAINSRLNCQAEMARRDSIGEVPPVPW RTTVVSGIAAGEAKLQLDHLRLVSLIGREVN KENSPAATRWLFSPQAGALAGGQVILQOA AKPNAHGQPVVATRNLLNPAGIVAVLK QRPLRVAAAQAFYLRDPIDLRACRVFK TFLPETRIMTSYYAIEWSLWTLVDVLHA ENSESAHMSHSNSYDPPSDVARHLTHLPM SPIDPYIARFRYRHRSRVRLTARKLSAPF MRCSEIQRYSITMLERGFNGGYCRSTTV RVVTEATRMLSF
7961	16012	A	916	1	1191	
7962	16013	A	917	1	227	
7963	16014	A	918	1	392	
7964	16015	A	919	157	388	
7965	16016	A	92	27	319	IINTSISLWFLGLSSIHHYQERFL*FN*FG SYMVFIEFFGISSAFVFC*WPK/Y/LYFRC YCRCFLILLLSIFEF/DLCYLVL*IFMFPL FFYMFLCV
7966	16017	A	920	451	593	
7967	16018	A	921	467	1038	
7968	16019	A	922	233	345	
7969	16020	A	923	1	1386	
7970	16021	A	924	1	1254	
7971	16022	A	925	36	695	
7972	16023	B	926	52	554	MGKEKTHINIVVIGHVDGSKSTTTGHILY KGCGIDKRTIEKFKEEAAEMGKGQSKFYA WVLKLKAERERGITIDISLWKFETSKY YTHTIDAPGRDFIKNMIIILNHPGQISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAIAVDMVPGKPMCV ESFSYPPPLGGFAVRDMRQTVAVGVVKA VDKKAAGAGKVTKSAQKAQKAK
7973	16024	A	927	63	1545	PLAKKMGEKTHINIVVIGHVDGSKST TTGHLIYKCGIDKRTIEKFKEEAAEM KGSKFYA*VLDKLKAERERGITIDISL WKFETSKYVVD*SLIAPGHRDFYSKT* FTGTISRLDLVWGAFLPLGG/CLP*LFAAG VWWNLKAGISQEWGRTREHALLGLHTG VWKQTKLFGVNKNWIST*GHPTAQKKIL KEIVKGKSALTTRKGYGNPDTSILCPISG WNGDNMLLEPSANMPWFQGDGKVTRK DGNASGTTILEALDCLPPTRPTDCKPLGL PLQDVVKIGGIGTVPVGRVETGVLPKGPM VVTFGPVNVITIEVKSVEMHHEALGEAL PGDNVGFNVKNVSVKDVRGRGNVAGDS KNDPMEAAFGPAQVILNHPGQISAGY APVLDCHTAHACKFAELKEKIDRRSGK KLEDGPKFLKSGDAIAVDMVPGKPMCV ESFSYPPPLGGFAVRDMRQTVAVGVVKA VDKKAAGAGKVTKSAQKAQKAK
7974	16025	A	928	2	246	
7975	16026	A	929	318	420	
7976	16027	A	93	264	664	IRLAECGICIFFQAFNSICNSNJIWLLPEIPLLG IYP*E*NTKTCQMFATAALFIIS*KVEISQ MPIINEKINKLWYIHMTCHTKNKVLIJRD T*MNLENKLNERGOTKKKKAIYCLSL FM*YVQNRQIHTDEK
7977	16028	A	930	205	400	

7978	16029	A	931	234	425	ICKWHILPCGLAGSYKIAKWVSGFTLLLT HMVGAAWV*LSLFGYTIIF*FPKMSFL TMKKDJF
7979	16030	A	932	405	862	
7980	16031	A	933	2	412	
7981	16032	A	934	110	431	
7982	16033	B	935	754	1544	MREIVHIIQAGQCGNQIAGKFWEPPWKASS IELSQCRNNSPSKVFRSKHEHDGLPVTPTR R*
7983	16034	A	936	1	451	
7984	16035	A	937	1	258	
7985	16036	A	938	3	1906	
7986	16037	A	939	1	585	ECLCVSTAVRIRHELKTMTELLRGGSFE FKDMRVPsalVTLMHMLCSIML.SGRLLDS DEQKIQNDIIDLTTFQGVNEKLTISET LANNTWSLMLKEVLSSILKVPEGFFSGLI LLELLPLPLPMOTTOVSPYNNMHLINDC SNIT*KASDVSKKQPKSPSPFLPKRH:KITG *GGDKTETSWSLRKYGGKNF
7987	16038	A	94	2	605	SHGTGRFTRPVEFGSAGSFSPWPFK KAKKRAGGADSNVFSMFEQTQMQEKF EAFSIMDQNDRGFIDKN\DLRDTFAALGE VNVVKNEEIDEM\KEA\PGPLNFTVFLTN VWGENLREADPEAETILNNAFKVVFDP\RP KGCMKAIDY\VS\GKML\THAGRRRFSE EV\DQM\AGLPPLT*LGNLDYKNL\VIHIT HQ\EEKD
7988	16039	A	940	625	2115	
7989	16040	A	941	180	359	GSLQRDRWPTSSWRTGRQGSSLLRPRWI SFLAQLWRV*RIPAGTFVIRIEDGNGRRA FI
7990	16041	A	942	1286	2188	
7991	16042	A	943	1	2537	
7992	16043	A	944	2	437	
7993	16044	A	945	298	581	GARAEARAGSGQGAGLGVSSPVRWRG WSDKGAERPGGPLSPREVSRAGPSG/H AARGQQPGRPRPPPPGRPRPPRRCPCTRA RPGGAAGGPCL
7994	16045	A	946	377	639	
7995	16046	A	947	1279	2253	
7996	16047	A	948	268	369	
7997	16048	A	949	15	440	
7998	16049	A	95	1	1254	
7999	16050	A	950	118	375	NATKNAEPLINLDVNPNPDFKAGVMALA NLQIQRHDDYLVMLKVAIRLVQERLTQ D
8000	16051	A	951	1	969	AATVLTITIGEAPSFRSDSAPARPLAASPV PAPPAPPFFSPGRGPQGDQSEKRWTMFR RKLT\SLDY\HNPAFNCKDETETFRNFIV WLEDQKIRHYKIEDRG\NLNRNHSDDWPK VFEKYFKRC*TCPFKJQDRQESYLTGFFG ULAVLEYGDNAEKYKDLVPDNSKTA*Q LQLKIAEPLINLDVNPNPDFKAGVVGFB TWLQIQRHDDGLPGQMLKANSGFVWQE RLDIQGCOFA*GQIKQKRGGLPVALDKH LGFDTGDAVLNEAAQILRLHIELRELQ TKINEAIAVVQAIADPKTDHRLGKSLED EHLRTSASHLL
8001	16052	A	952	1258	1429	
8002	16053	A	953	189	403	

8003	16054	A	954	51	1702GLPRCAVQPVCEVQRRWKRWLWDIT WEWKQMDTVQKSIYRNILAEKYRN1.VL LDGKLAAGAKTSTRVEQQDISKED*SRL EMEELAKRKSVPPEIWKSQRQFKNQNQLN KENNLGQEIACTCKIPTRKRDIESNEF/RE KPYCKINTCC/MNR*LLWKRIVINMVHVE RCNSKTQI*LYKESIMMEEKKPKCYSECG RTFRGHITLVQHQTTCGERPKCTECRK GPNQSSHLRRNNQRKTLSGEKPYKCECG KAFSYCLVLNQHQRIHSGEKPYEGTECG KTFIQSISYLTTQHQRTSHTGEKPVTCLEC GRIFSQNTHTLHQHRTGKPYECNEC GRFSQTAHLLTQHORMTYGEKLYECNE CEKAFAHDHSALIOHHVHTAEPYDMLT GKTFSCSDLIQHQRMHTEGKPYKCN GNAFSDCSSLIQHQRHTHGEPPYECQ GKAFSRSTYLTQHORSHAGEKPYQKCN CEFTSLSSFLTQHMRVQTGEPYK YGFKAFCDSGCHFQRTHTGEKPCECND GKPFSPCSALIQHQRHTRK K
8004	16055	A	955	2	270REKEWPPHTQPWPYBGGFEDQHYEE GSVIKENCNCS*WTIAQNYSQFWGMTEL GKFRLGLTPSPMPLLSMNEMTVSVP SRMCMYL
8005	16056	A	956	1	999
8006	16057	A	957	1	1518VHCSEFPGRPPRTRGRKVEAIPVFQR MWYGKJLIFSYLTTEIWMEKQYLSQRE VDLEAYFTRNHFTLQGTHFKRAIFQGQ YCRNFGCCEDRDDGCVTEFYAANALCY CDKFCDRENSDCDPDYKSFREEKEWPP HTQWPYPEGCFKDQHYYEGSVIKEN NSCTCSQQQWKCQHCLVRPELIEQV NKGDYGWTAQNYSQFWGMTEL RGTLPSPSLMLLSMNEMTASLPA EFFVASYKWPWTHGPLDQNKCAASW ASTASVAADRIAOSKGRYTANLSPQNL ISCCAOKNRHGCGNSGSDRAWWYLRKG LVSHACYPFLFKDQNTNINGCAMASRSD GRGKRHATKPCPNVVEKSNRQYQCSPPY RVSSNETIMEIMQNGPVQAIMQVHIED FFHYKTTGIRHVTSTNKESEKYRKLQTH AVKLWTGWTLRGAQGQKEKFWIAANS WGKSWGENGYFRIJRGVNEDIEKLIIAA WGQLTSSDEP
8007	16058	A	958	316	411
8008	16059	A	959	314	390
8009	16060	B	96	52	554MGKEKTHINIVVIGHVDSGKSTTGHLY KGCGIDKTRIEKFEKEAEMGKGSFKYA WVLDKLKAERERGTDISLWKFETSKY YVTIDAFGRDFIKNMILNHPPQISAGY APVLDCHTAIIACKFAELKEKIDRSQK KLEDGPKFPLKSGDAIAVDMVPGKPF
8010	16061	A	960	112	1154SCGLGHRKTFPSVSLPARNETQPKACRE QNMEGDFSVCRNC*RHVVSANFLH YCLRFVLVLCPECEEFPVKETMEEHICKLE HQVVGCTMCQQIMHKSSLEFHIANECQ ERPVECKFCKLDMQSKLSELHESYCSR TELCCQCGQFIMHRLAQRRDVCRSEQ AQLGKGERISAPERFIVCHYCNQMIOPEN KYTFHJMGKCCPDESEKKHFVGVNP SSLPSQAAENQSTMEDKDRVPKTRSINRF PLHSESSKKAPRSKNTLDPILLMSEPKP RISSPRGDKAAYDIURRCSQGILLPLIL NQHOKCRWLASSKRKTSEKFQLDLEK ERYYKFKR/HF
8011	16062	A	961	103	538
8012	16063	A	962	1	405
8013	16064	C	963	334	471

8014	16065	A	964	1	1137	
8015	16066	A	965	1	451	GDRPFRV*DPRAGQAATFWTDPQLS*SL LLGVMPFAAPSPTPTGTGPRRGPLLAGLG PGSTPRTASRMGLPLGSAVSSPVLFSPPG RRSSLISRGTPTRMLPHHSITESVNVDAK TIGSSLPVKVMΕΑTLAEVDDQLTININE GGWACLV
8016	16067	A	966	301	1867	
8017	16068	A	967	57	383	GWLAHTIANERPVRCFPWLEGFGLENIR A PTLNF*QIQOSLAIFVEPIKTTIILPFCFFRIF STRVRICTYSSHSPGPAGGLLHFSSL VRFKISFGDTVAVAPVPDF
8018	16069	A	968	507	904	KGRAKECWRRSLRPRGPRGETRAASPSS ARPSLALASAPRKSGPRPRQGPRLW PRGLKGQVCARGPGRGGPGVGGRRSA SARAPRVPGDQPPPAPSS*ED/WT/EIG RLSSHAPLAVLHTRSALLNS
8019	16070	A	969	379	858	
8020	16071	A	97	1	1299	
8021	16072	A	970	259	483	
8022	16073	A	971	175	588	
8023	16074	A	972	1	383	
8024	16075	A	973	79	445	
8025	16076	A	974	1163	1401	
8026	16077	A	975	80	406	
8027	16078	C	976	70	240	MITGTSQADCAVLIVAGVGEFXXAGISK NQQTTRDMRKXLRKSALTLRKLATTPT Q*
8028	16079	B	977	68	490	MGKEKTHINIVVIGHVDGKSTTTGHILY KCGGIDKRTRIEKPEKEAAEMGKGSFKYA WVLDFKLKAERERGTTIDISLWKFETSKY YVTIIDAPGHRDFIKNMITGTSQADCAVL IVAGVGEFEAGISKNGQTREHALLA*
8029	16080	A	978	261	406	
8030	16081	A	979	1	678	
8031	16082	A	98	36	697	KLPLKAKMGKEKTHINIVVIGHVDGOKS TTGHLIYKCGGIDKRTRIEKPEKEAAEMG KGSFKYAWVLDFKLKAERERGTTIDISLW KFETSKYVVTIDAPGHRDFIKNMITGTS QADCAVLIVAGVGEFEAGISKNGQTRE HALLAYTLGVKQLIVGVNKMDSTGAIL TGDFPSLEPRHJSTWLQHVVTIPTRNW KCYCVGVVANFLNVSADEFLNNF
8032	16083	A	980	181	340	
8033	16084	A	981	1	375	

8034	16085	A	982	1	2583	MVNFTVDQIRAIMDKKANIRNM/SVIAHV DHGKSTLTDSDLVCKAGIIASARAGETRFT DTRKDEQERCIPIKVNAISLPFVELSEND LNFIQQSKDAGFLNLDSPGHVDFSSSE VTAALRVTMGAJVVVDCVSGVCVQTET VLRQAIAERIKPVLMNMKMDRALLELQ LEPEELYQTQFQRIVENVNVIISTYGEGESG PMGNIMIDPVVLGTVGFQSGLHGWAFTLK QFAEMYVAKFAKEGQQLQPAERAKK VEDMMKLUWGDIBRYFPANGKFSKPAT SPEGKLPLRTFCOLILDPIFKVFDAINMF KKEETAKLIEKLDILDSEDKDKEGPKLL KAVMRWLPAAGDALLQMITIHLSPVTA QKYRCERYEPPDPDEAAMGIKSCDPKG PLMMY1SKMVPTSDK-GREYAFGRVFSCL VSTGLKVRIQMGPNTYPGKKEEDLYLKPIQ RTILMMGRYVEPIEDVPCGNIVGLGVGD QFLVKTGTITTEFHANHMVMKFSVSPV VRVAEAKNPADLPLKLVEGKLRLAKSD PMVQCIIIESGEHIIAGAGELHLEICLKD BEDHACIPIKKSDPVVSVRETVSEESNL CLSKSPNKHNRLYMKARPFDGLAEID KGEVSARQELKQRARYLAERYEWDVAE ARKIWCFCGPDGTGPNI LTDITKGVQYLN EIKDSVVAFGFWATKEGALCEENMRGV RFDVHDVTLHADAIIHRGGGQIPTARRC LYASVLTAQPRLMEPITYLVEIQCPFEQVVG GYGVNLNRKRGRHVFEEQSVAQTPMFVV KAYLPVNENSFQFTAIDLRSNTGGQAFQC VFDHWQILPGDPFDNSRRPSQVVAETRK RGKLGKEGIPALDNFLDKL
8035	16086	A	983	1326	1498	
8036	16087	A	984	60	966	RRRNSDGNACOPATHLLISARFITGHHQ KLKSELKKTLQVIMLN1QKVRIPTRDGY NEKDSTGKNEKELELSNIAQGSPNIEK KEYEQQSVLSCCSERKKDANPKSVCSFF MQEQCTKGEKRFPLPGTSLVRDRHLYFG ILPTVSNAAVVKEVPTVSNAAV/VTEAPT GSNAAVVTEAPTGSNAARVMEVPTGSN AAVVTTEVPTGSNAAVVTEAPTGSNAAV VKEAPTGSNAARVMEVPTGSNAAVVKE APTGSNAARVMEVPTGSNAAVVKEVPT GSNAAVVKEVPTGVTLRWSRKRPRE
8037	16088	A	985	1393	1625	
8038	16089	A	986	358	475	
8039	16090	A	987	232	329	
8040	16091	A	988	127	461	
8041	16092	A	989	562	897	
8042	16093	A	99	62	1548	PLAKMGKEKTHJNIVVIGHVDSGKST TTIGHLYKCGGIIDKRTIEKPEKEAAEM GKGFSFKYAWVLDKLKAERERGTTIDSL WKFETTSKYVVD*SLAPGHQETFIQKH DLQGTSQGLAWFGGPPFWGGSPILVVA\\ GVGEP*SLVSPKNGADPTKHALLGLHT GVWKQTKLFGVKNWNIST/*EPYPSPEED IEGNC*GKYSTYIK\KIGYNPDTSILLCPIS GWINGDNMLEPSPNNMPWFQGDGKVTR KDGNASGTTLLEALDCLLPTRPTDKPLG LPLQDVYKIGGI GTVPPVGRVETGVLKPG MVTFTGPVNVTIEVKVSEMHHEALGEA LPGNDVGFNVKNVSVKDVRRGNVAGDS KNDPMEMEAAGPQAQVIIILNHFPQGQISAGY APVLDCTAHIAICKFAELKEKIDRRSQK KLEDGPKFLKGDAIIVDMVPGKPMCV ESFSYDYPPLGCFAVRDMRQTVAVGVVI VDKKAAGAGKVTKSAAQKAQKAK
8043	16094	A	991	7	494	
8044	16095	A	992	206	357	

8045	16096	A	993	1	101	
8046	16097	A	994	256	407	
8047	16098	A	995	254	432	
8048	16099	A	996	249	400	
8049	16100	A	997	37	465	
8050	16101	C	998	127	216	MRLRKQAENVEKKIDKYTEVLKTHGL LV*
8051	16102	A	999	1	1258	LFLPLLEPGERRGILYRSRPGGAVALILL AAAVSICAVISQHAPPWTEDCRKSTYP RPTYRGAVPWDTIQCLTYHPYKRWHEL MLDKAPV/LQKVIVNSLKNMINTFVPSG KIMQVVDDEKLPGLLGNFPFGPEEEMKG IGRCCLLDIPLGEIIISFNIFVYELFTICTSIVA EDKKKGHLIHGRNMDFGVFLVWNINND TWVITEQLKPLTVNLDFQRNNKTVFKAS SPAGYVGMLTVGPKPGFLSLLTNERFSIN GGYLGLEWNLGKDDAMWIGFLTRTVLE NSTSYEEAKNLLTKTKILAPAYFILGQNQ SGEGCVITDRKESLDVYELDAKQQGRW YVVQTNYDRWKHPPFLDDRRTPAKMCL NRTSQE尼斯FETMYDVLSLKPVLNKLTV YTTLIDVTKGQFETIYLRDCCPDPICGW

## WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:
  - (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
  - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO: 1-8051.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.

13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
  - detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
  - amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
  - detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:
- contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and
  - detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.
17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:
- contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and
  - detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.
18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

- a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and
- b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

- a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO: 1-8051, a mature protein coding portion of SEQ ID NO: 1-8051, an active domain of SEQ ID NO: 1-8051, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO: 1-8051, under conditions sufficient to express the polypeptide in said cell; and
- b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of SEQ ID NO: 8052-16102, the mature protein portion thereof, or the active domain thereof.

21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.

22. A collection of polynucleotides, wherein the collection comprises the sequence information of at least one of SEQ ID NO: 1-8051.

23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.

24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.

25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.

26. The collection of claim 22, wherein the collection is provided in a computer-readable format.

27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

28 A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.